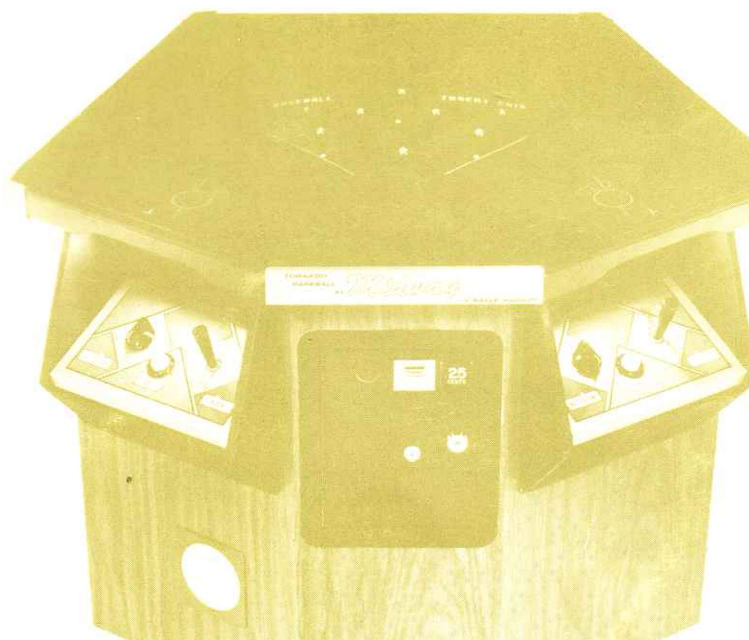
Midway's

GAME NO. 605 & 607
JULY, 1976

TORNADO BASEBALL PARTS CATALOG





NO. 0607 COCKTAIL TABLE

NO. 0605 UPRIGHT

MIDWAY MFG. CO.
A BALLY COMPANY
10750 WEST GRAND AVENUE
FRANKLIN PARK, ILLINOIS, 60131, U. S. A.

PHONE: (312) 451-1360 CABLE ADDRESS: MIDCO TELEX NO.: 72-1596

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GENERAL INSTRUCTIONS FOR "TORNADO BASEBALL"

INSTALLATION:

1. Remove shipping cleats located on the bottom of the cabinet.

2. The power is controlled by a switch located on top of the cabinet. Plug into A.C. only, 115 volts 60 cycles. In low lines areas, (105 volts or less) a boost in the output voltage of the transformer may be achieved by removing the wire from the 115 volt tap of the transformer, and rewiring to the 105 volt position.

3. In event the game is tilted, or the line cord is removed, and credit (Innings) accumulated will reset to zero.

VOLTAGE CONTROL POT:

Located on Power Supply Board (P.C. 80-905) and is preset at the factory. This pot should not be tampered with unless the factory Service Department is contacted.

INNING AND COIN ADJUSTMENT SWITCHES:

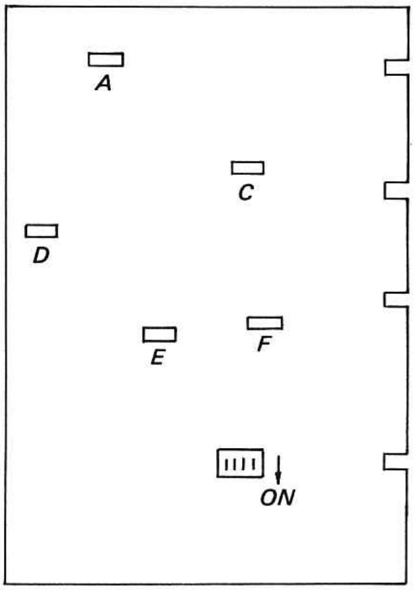
Located on Game Logic Board (P.C. 605-905B) and may be adjusted as indicated on separate instruction sheet located in back box area.

TONE, WHISTLE, SIREN, LOGIC, CHEER AND MASTER VOLUME CONTROL POTS:

Located on Game Logic Board (P.C. 605-905B) and may be adjusted as desired by rotating pots as indicated on separate instructions in back box area.

<u>WARNING</u>

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.



NOTE: CLOCKWISE ROTATION IDENTIFIED AS VIEWED FROM POT FACE.

A. SIREN VOLUME: To increase rotate clockwise.

C. MASTER VOLUME: To increase all volumes rotate clockwise.

D. CHEER VOLUME: To increase rotate clockwise.

E. WHISTLE VOLUME: To increase rotate clockwise.

F. LOGIC VOLUME: To increase "HIT & STRIKE" volume rotate clockwise.

G. GAME CONTROL SWITCH: May be set at 1, 2, 3 or 4 coins per play.

GAME CONTROL SWITCH ADJUSTMENTS

GAME CONTROL SWITCH ADJUSTMENTS

		2	3	4	5
1 COIN	1 INNING	ON	ON	ON	ON
1 COIN	2 INNING	ON	ON	OFF	ON
1 COIN	4 INNING	ON	ON	ON	OFF
1 COIN	9 INNING	ON	ON	OFF	OFF
2 COINS	1 INNING	OFF	ON	ON	ON
2 COINS	2 INNING	OFF	ON	OFF	ON
2 COINS	4 INNING	OFF	ON	ON	OFF
2 COINS	9 INNING	OFF	ON	OFF	OFF
3 COINS	1 INNING	ON	OFF	ON	ON
3 COINS	2 INNING	ON	OFF	OFF	ON
3 COINS	4 INNING	ON	OFF	ON	OFF
3 COINS	9 INNING	ON	OFF	OFF	OFF
4 COINS	1 INNING	OFF	OFF	ON	ON
4 COINS	2 INNING	OFF	OFF	OFF	ON
4 COINS	4 INNING	OFF	OFF	ON	OFF
4 COINS	9 INNING	OFF	OFF	OFF	OFF

NOTE: Switches 1 - 6 - 7 should remain in "ON" position.

RAMs, ROMs, and PROMs TESTING

GAME: Tornado Baseball

SUBJECT: RAMs, ROMs, and PROMs

The Tornado Baseball game micro-computer system has been programmed to detect a defective RAM, ROM, and PROM. To utilize the test, proceed as follows:

1. Set switch #6 to the 'OFF' position on the game board (PC 605-900).

2. Activate coin door.tilt switch.

3. The RAM test sequence will scan and vertical lines will appear.

4. After RAM test sequence is completed and a RAM is defective, 16 vertical columns will appear. (Refer to figure 1 for method of locating bad RAM).*

5. When 16 vertical columns do not appear after RAM sequence, this indicates all RAMs are good.

6. When RAM test is completed and all RAMs are good, the TV screen will go blank and now indicate a bad ROM or PROM by displaying letters locating it.

7. When all ROMs and PROMs are good, the blank TV screen will display nothing.

8. Return switch #6 to 'ON' position (PC 605-900).

9. Activate the tilt switch to return game to normal operation.

NOTE – All RAMs must be good before ROM or PROM test can be made.

GAME: Tornado Baseball

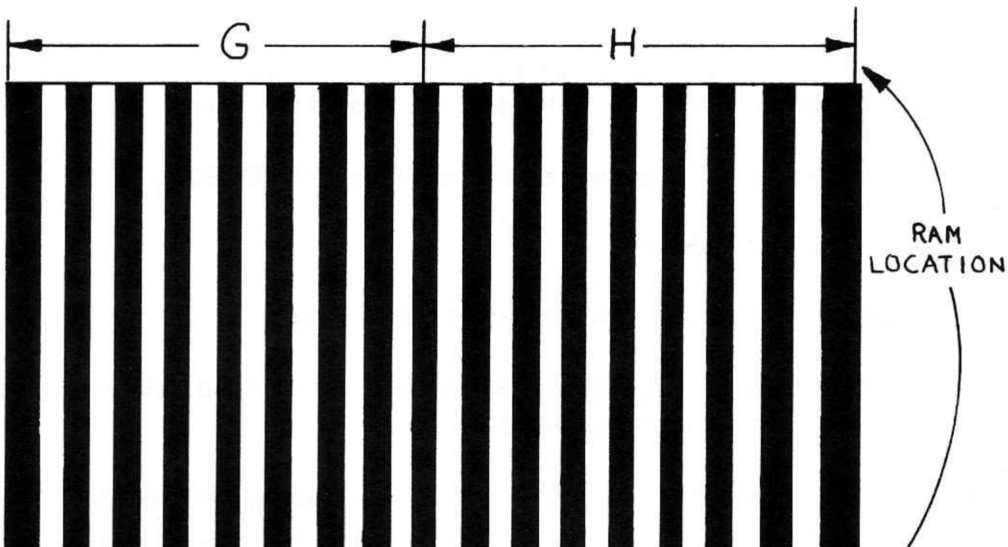


Figure One — Method of Locating a Bad RAM

1. When one or more columns are missing or altered, this would indicate a RAM problem.

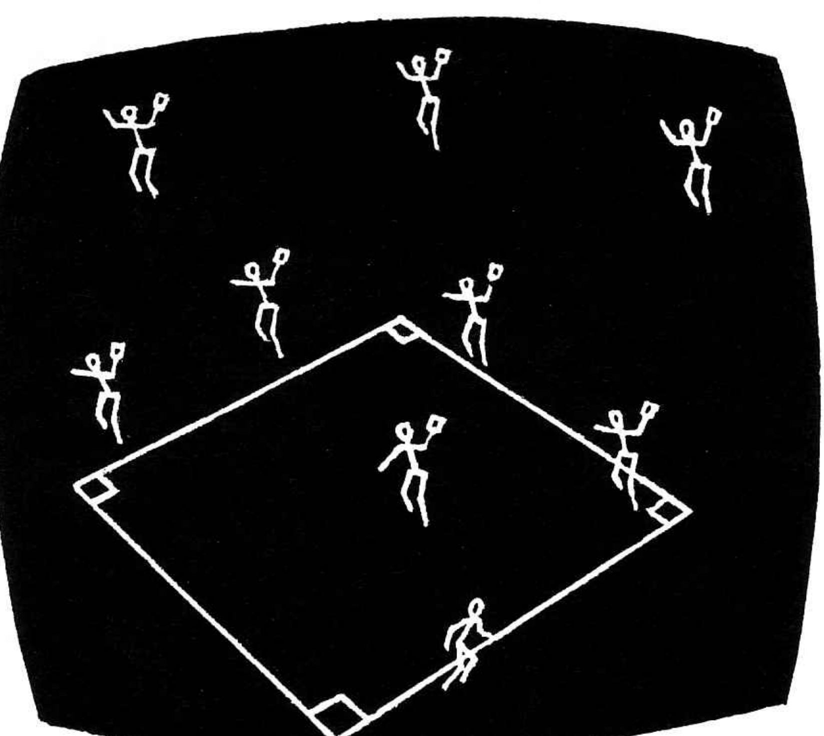
2. Use Figure One TV display to determine location of faulty RAMs.

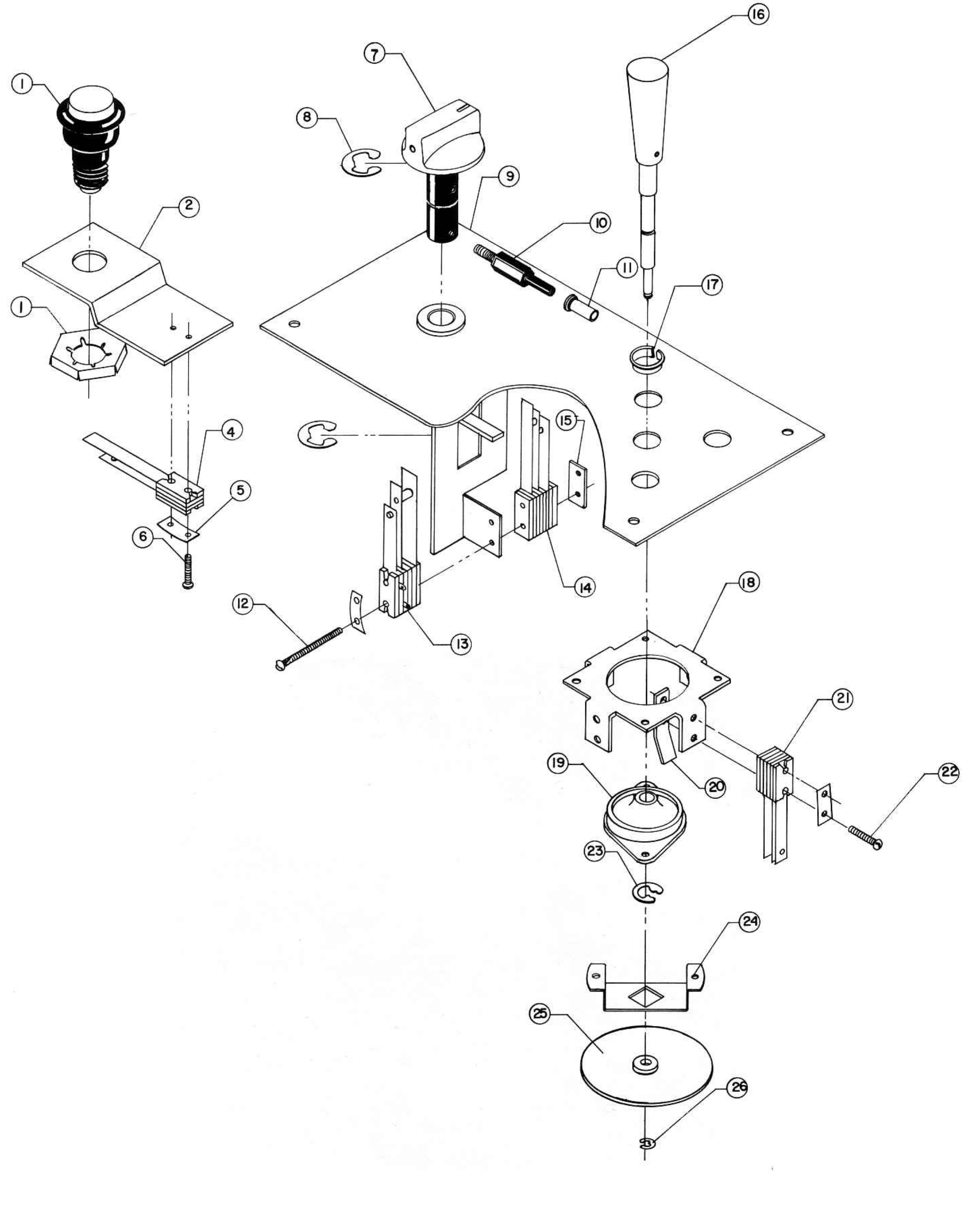
SERVICE BULLETIN

GAME: Tornado Baseball

The Tornado Baseball Up-Right and the Tornado Baseball Cocktail Table logic game board, P.C. 605-900, are not inter-changeable due to different control circuits. The above circuits are shown on game logic board schematic.

This does not effect the mother logic board, P.C. 80900.




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NO. 0605 – TORNADO BASEBALL – CONTROL SHELF

PRICE LIST

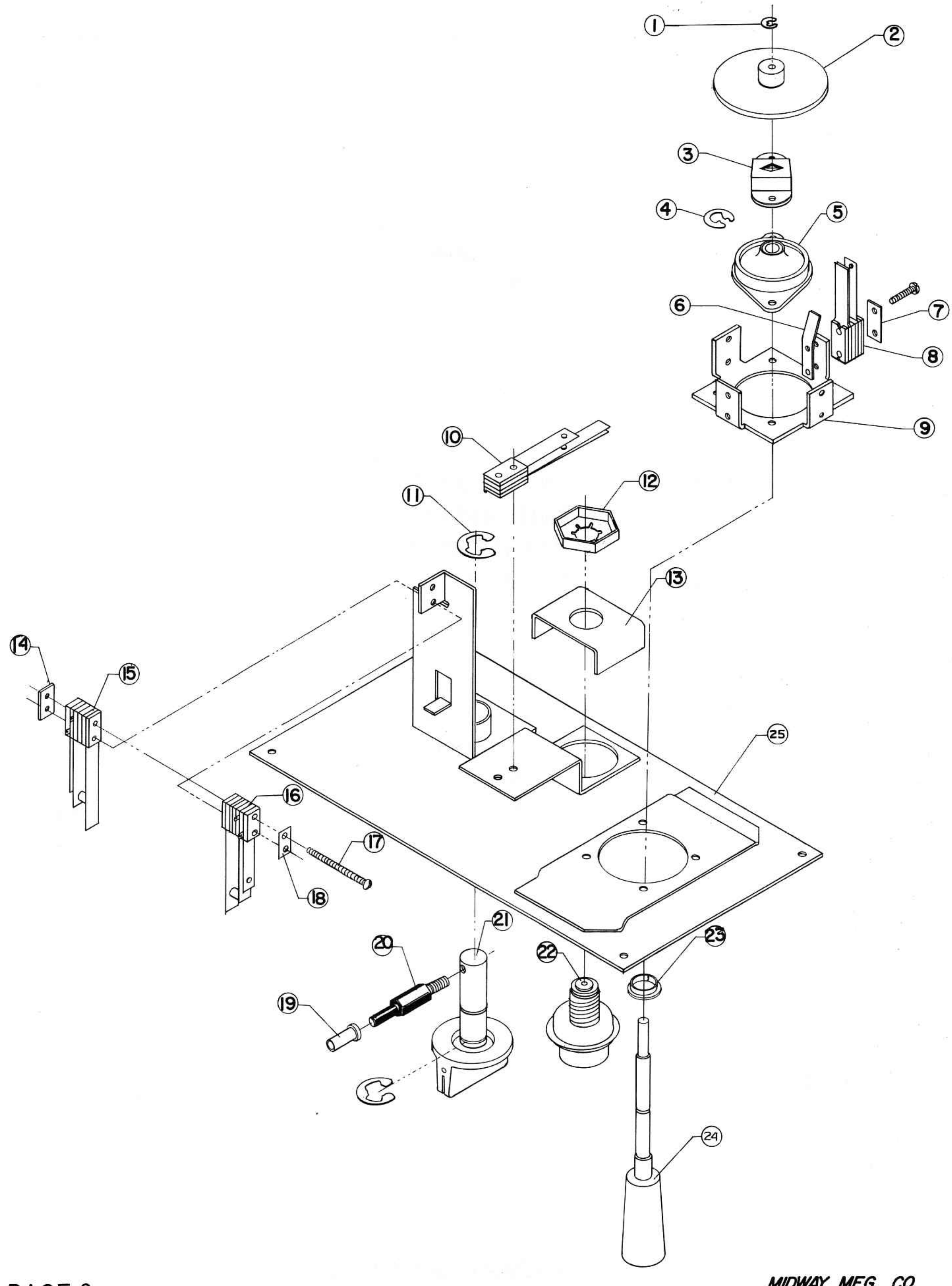
ORDER BY PART NUMBER ONLY

ITEM	PART Nº	DESCRIPTION	PRICE
1	0589-00010	PUSH BUTTON	3.30 EA.
2	0586-00107	MOUNTING BRACKET (2)	.40 EA.
4	0586-00036	PUSH BUTTON SWITCH	.70 EA.
5	0020-00202	SWITCH PLATE	.20 EA.
6	0017-00101-0521	5-40 x 3/8 P.H. M.S.	.20 EA.
7	0605-00002	KNOB & SHAFT ASSY.	3.80 EA.
8	0017-00100-0050	"E" RING	.20 EA.
9	0605-00009	MOUNTING BRACKET ASSY.	3.30 EA.
10	0589-00700	PIN	.90 EA.
11	0577-00703	SLEEVING	.40 EA.
12	0017-00101-0534	5-40 x 1 3/8 R.H. M.S.	.20 EA.
13	0605-00006	SWITCH, OUTFIELD LEFT	1.40 EA.
14	0605-00005	SWITCH, OUTFIELD RIGHT	1.40 EA.
15	0520-00138	SWITCH PLATE	.20 EA.
16	0605-00001	HANDLE ASSY.	5.60 EA.
17	0017-00042-0018	NYLINER	.20 EA.
18	0597-00104	SWITCH MOUNTING BRACKET	2.10 EA.
19	0017-00009-0220	GROMMET (150PD-6)	2.50 EA.
20	0597-00113	GUARD STRIP	.40 EA.
21	0597-00004	CONTROL SWITCH	1.10 EA.
22	0017-00101-0527	5-40 x 5/8 P.H. M.S.	.20 EA.
23	0017-00100-0025	"E" RING	.20 EA.
24	0597-00106	STOP BRACKET BOTTOM	.50 EA.
25	0605-00004	WASHER & BUSHING – SUB ASSY.	.90 EA.
26	0017-00100-0015	"E" RING	.20 EA.

MIDWAY MFG. CO.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

NO. 0607—COCKTAIL-TABLE CONTROL SHELF



NO. 0607 – COCKTAIL TABLE – CONTROL SHELF

PRICE LIST

ORDER BY PART NUMBER ONLY

ITEM	PART Nº	DESCRIPTION	PRICE
1	0017-00100-0015	"E" RING	.20 EA.
2	0605-00004	WASHER & BUSHING ASSY.	.90 EA.
3	0597-00106	STOP BRACKET BOTTOM	.50 EA.
4	0017-00100-0025	"E" RING	.20 EA.
5	0017-00009-0220	GROMMET	2.50 EA.
6	0597-00113	GUARD STRIP	.40 EA.
7	0020-00202	SWITCH PLATE	.20 EA.
8	0597-00004	CONTROL SWITCH	1.10 EA.
9	0597-00104	SWITCH MTG. BRACKET	2.10 EA.
10	0586-00036	BUTTON SWITCH	.70 EA.
11	0017-00100-0050	"E" RING	.20 EA.
12		COMES WITH ITEM NO. 22	
13	0607-00102	SPACER	.60
14	0520-00138	SWITCH PLATE	.20
15	0605-00006	SWITCH, OUTFIELD LEFT	1.40
16	0605-00005	SWITCH, OUTFIELD RIGHT	1.40
17	0017-00101-0534	5-40 x 1 3/8 R.H. M.S.	.20 EA.
18	0020-00202	SWITCH PLATE	.20 EA.
19	0577-00703	SLEEVING	.40 EA.
20	0589-00700	PIN	.90 EA.
21	0605-00002	KNOB & SHAFT & ASSY.	3.80 EA.
22	0589-00010	PUSH BUTTON(COMES WITH ITEM NO. 12 ALSO)	3.30 EA.
23	0017-00042-0018	NYLINER	.20 EA.
24	0605-00001	HANDLE ASSY.	5.60 EA.
25	0607-00001	CONTROL PANEL ASSY. W/CABLE	80.00 EA.

TORNADO BASEBALL – ADDITIONAL PARTS LIST

PRICE LIST

ORDER BY PART NUMBER ONLY

ITEM	PART №	DESCRIPTION	PRICE
		COCKTAIL TABLE (0607)	
	0017-00003-0165	19" TV. MONITOR – MOTOROLA	390.00 EA.
	0017-00003-0032	SPEAKER	7.30 EA.
	0604-00900	PENTAGONAL GLASS	124.20 EA.
	0604-00901	LIGHT PANEL	1.30 EA.
	0607-00900-00SC	SILK SCREENED CARDBOARD	7.10 EA.
	0604-00903	19" TV. BEZEL	14.00 EA.
	0569-00001	SPEAKER BEZEL ASSY.	2.00 EA.
	0549-00128	SPEAKER GRILL	1.20 EA.
	0017-00041-0576	GASKET	.20 EA.
	0604-00101	CASH BOX	6.00 EA.
	0604-00102	CASH BOX COVER	2.40 EA.
	0601-00010	CASH BOX LOCK BRACKET	1.40 EA.
	0017-00102-0048	LEG LEVELER	.50 EA.
	0017-00103-0026	LEG LEVELER NUT	.20 EA.
	0604-00111	VENT GRILL	.30 EA.
	0017-00031-0002	SOCKET, LAMP	.20 EA.
	0017-00003-0052	LAMP	.40 EA.
	0017-00005-0046	BACK DOOR LOCK	3.40 EA.
	0017-00005-0051	LOCK PLATE	.40 EA.
	0017-00005-0042	CAM	.40 EA.
	0017-00003-0102	COUNTER	9.00 EA.
	0567-00003	P.C. BOARD MOUNTING ASSY.	1.70 EA.
	0591-00017	P.C. SUPPORT BRACKET ASSY. (SMALL)	.90 EA.
	0597-00012-0100	P.C. SUPPORT BRACKET ASSY. (R.H.)	3.10 EA.
	0597-00012-0002	P.C. SUPPORT BRACKET ASSY. (L.H.)	3.10 EA.
	0080-00001	HEAT SINK ASSY.	7.50 EA.
	0017-00102-0069	1/4 x 20 x 3 1/2 HEX HEAD BOLT	.20 EA.
	0017-00104-0039	3/4 x 9/32 x 1/16 FLAT WASHER	.20 EA.
	0604-00108	GLASS RETAINER	1.00 EA.
	0607-00103	FRONT RETAINER	6.00 EA.
	0604-00002	MOUNTING FRAME, HORIZONTAL ASSY.	4.40 EA.
	0604-00112	COOLING MOTOR	28.20 EA.
	0604-00111	VENT GRILL	.40 EA.

PRICE LIST

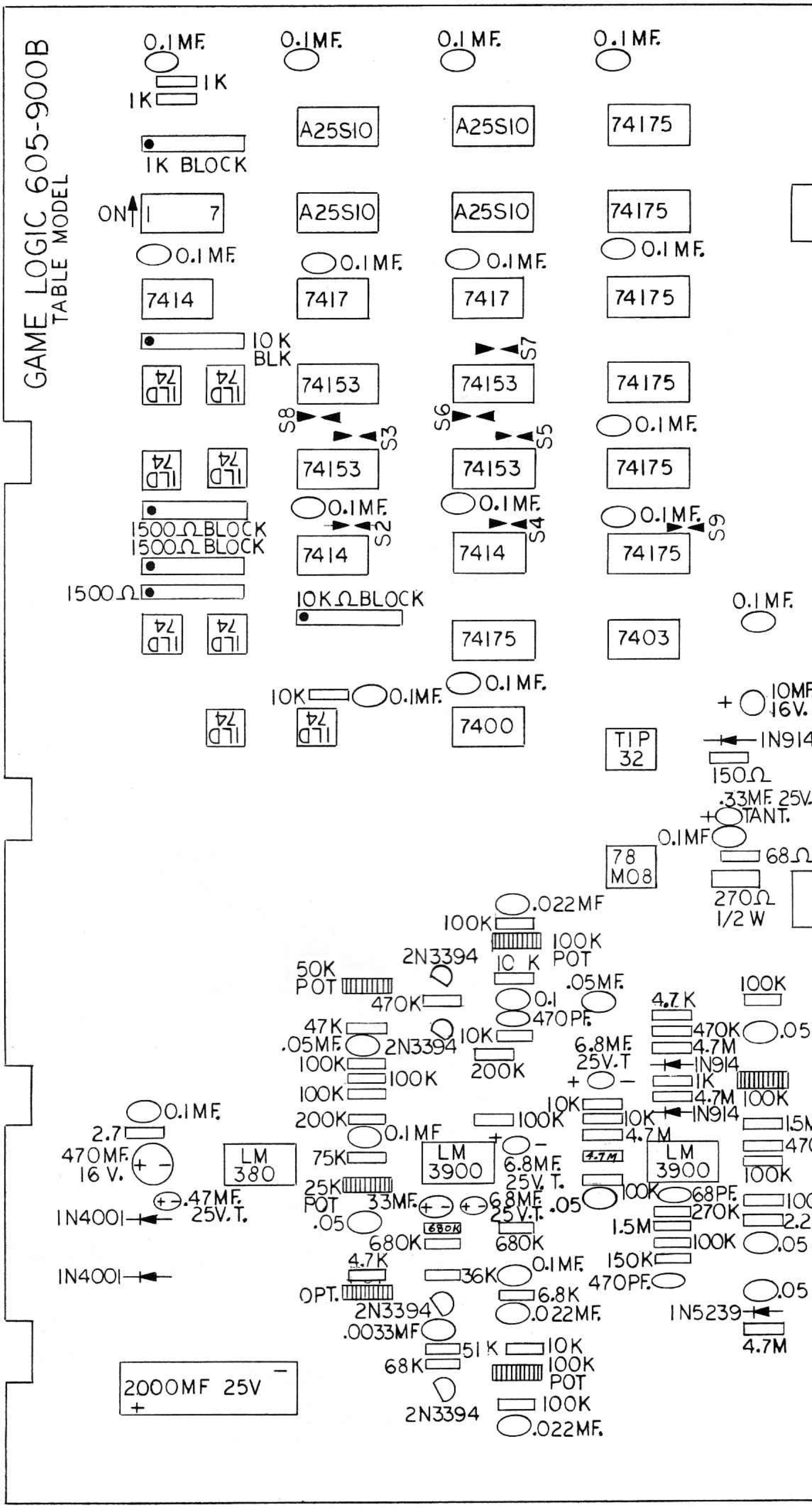
ORDER BY PART NUMBER ONLY

ITEM	PART Nº	DESCRIPTION	PRICE
	0607-00901	GREEN ACETATE COLOR MASK	4.20 EA.
		UPRIGHT CABINET (0605)	
	0605-00003	CONTROL SHELF ASSY. W/CABLE	90.50 EA.
	0605-00907	FRONT GLASS	11.60 EA.
	0605-00907-00TE	TEMPERED FRONT GLASS	26.70 EA.
	0605-00010	FLOURESCENT FIXTURE ASSY W/O BL-BULB	28.70 EA.
	0017-00003-0110	24″ FLOURESCENT BL-BULB	7.00 EA.
	0017-00031-0002	SOCKETS	.20 EA.
	0017-00003-0052	LAMPS	.40 EA.
	0597-00012-0200	P.C. SUPPORT BRACKET ASSY. (L.H.)	3.10 EA.
	0605-00902-00SC	NAME GLASS	11.60 EA.
	0605-00907-00TE	TEMPERED FRONT GLASS	26.70 EA.
	0605-00902-00SC	NAME GLASS	13.60 EA.
	0605-00909	TINT OVERLAY	.20 EA.
	0605-00906	MIRROPANE MIRROR	71.50 EA.
	0537-00138	GLASS LIFT BRACKET 24″	2.60 EA.
	0605-00108	GLASS LOCK EXT.	.80 EA.
	0605-00104-0001	GLASS LOCK BRACKETS	1.70 EA.
	0017-00009-0009	TURN BUTTON	.20 EA.
	0090-00020-02BR	DOUBLE ENTRY COIN DOOR	104.00 EA.
	0090-00002-02BR	DOOR FRAME	7.80 EA.
	0566-00120	CASH BOX	6.00 EA.
	0566-00121	CASH BOX COVER	2.20 EA.
	0601-00010	CASH BOX LOCK BRACKET	1.40 EA.
	0017-00005-0046	BACK DOOR LOCK	3.40 EA.
	0017-00005-0051	LOCK PLATE	.40 EA.
	0017-00005-0042	CAM	.20 EA.
	0017-00003-0102	COUNTER METER	9.00 EA.
	0017-00003-0161	SPEAKER	6.00 EA.
	0569-00010-00BR	SPEAKER BEZEL	2.00 EA.
	0017-00041-0576	SPEAKER GASKET	.20 EA.
	0596-00137	SUPPORT CHANNEL SHIPPING	1.20 EA.
	0605-00010	FLOURESCENT FIXTURE ASSY.	28.70 EA.

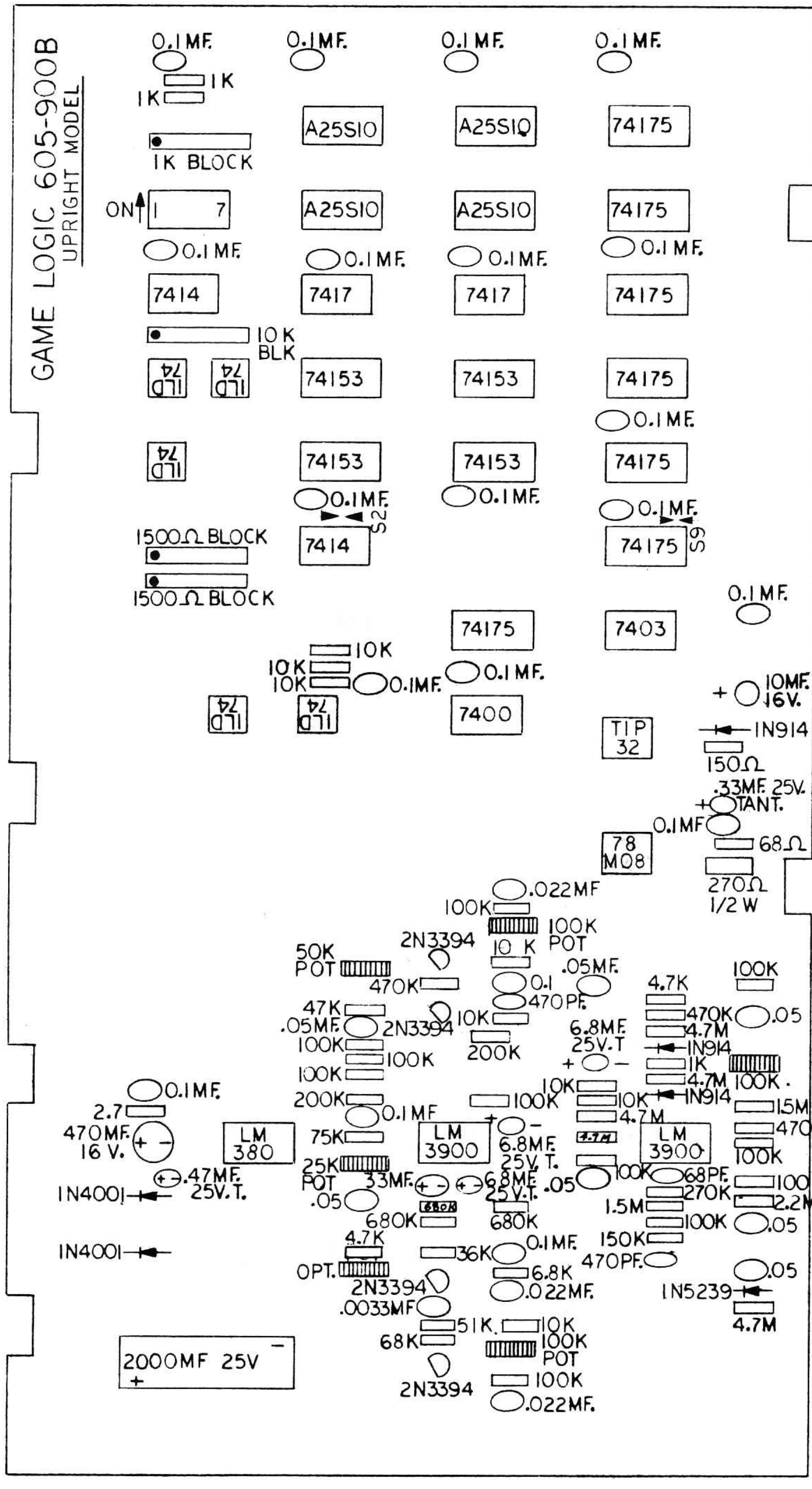
PRICE LIST

ORDER BY PART NUMBER ONLY

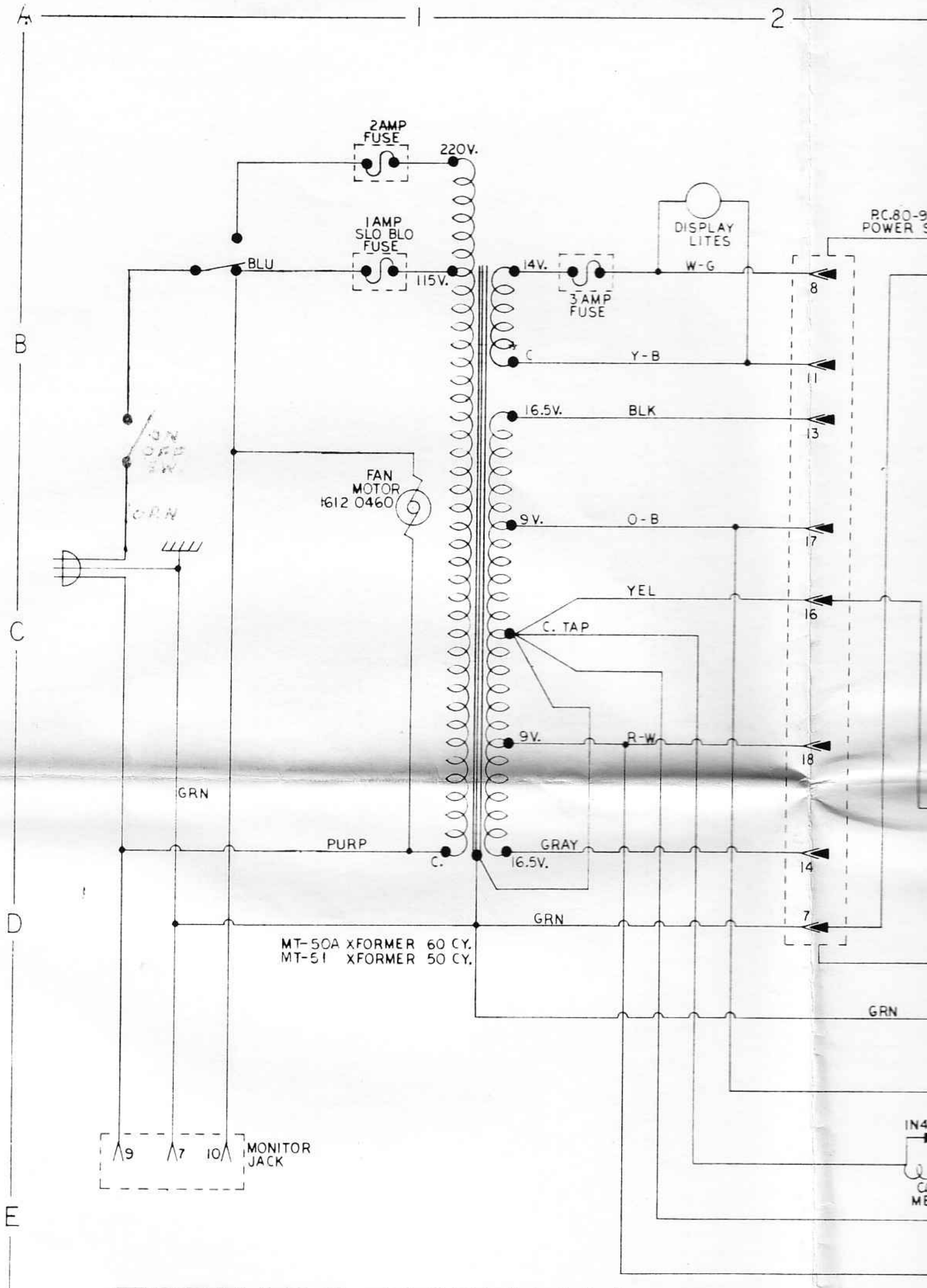
ITEM	PART №	DESCRIPTION	PRICE
	0017-00003-0110	LAMP 24" FLOURESCENT BL-BULB	7.00 EA.
	0017-00031-0015	LAMP HOLDERS	.60 EA.
	0017-00003-0019	STARTER	.20 EA.
	0017-00021-0079	STARTER HOLDER	2.00 EA.
	0017-00021-0005	FLOURESCENT LOCKS	.30 EA.
	0017-00041-0013	GROMETS	.20 EA.
	0017-00003-0036	BALLAST	2.20 EA.
	0567-00106-0100	SWITCH MTG. PLATE	.60 EA.
	0572-00103	VENT GRILL	1.20 EA.
	0605-00107	FISHPAPER BARRIER	.60 EA.
	0605-00003	CONTROL SHELF ASSY. W/CABLE	90.50 EA.
	0597-00012-0100	P.C. SUPPORT BRACKET ASSY. (R.H.)	3.10 EA.
	0605-00008	P.C. BD MTG. ASSY.	15.50 EA.
	0567-00003	P.C. BD MTG. ASSY.	1.70 EA.
	0017-00003-0140	MOTOROLA MONITOR	390.00 EA.
	0161-00002	DAG SPG. ASSY.	1.50 EA.



S2 TO S9 ▶◀ INDICATE OPEN LINKS



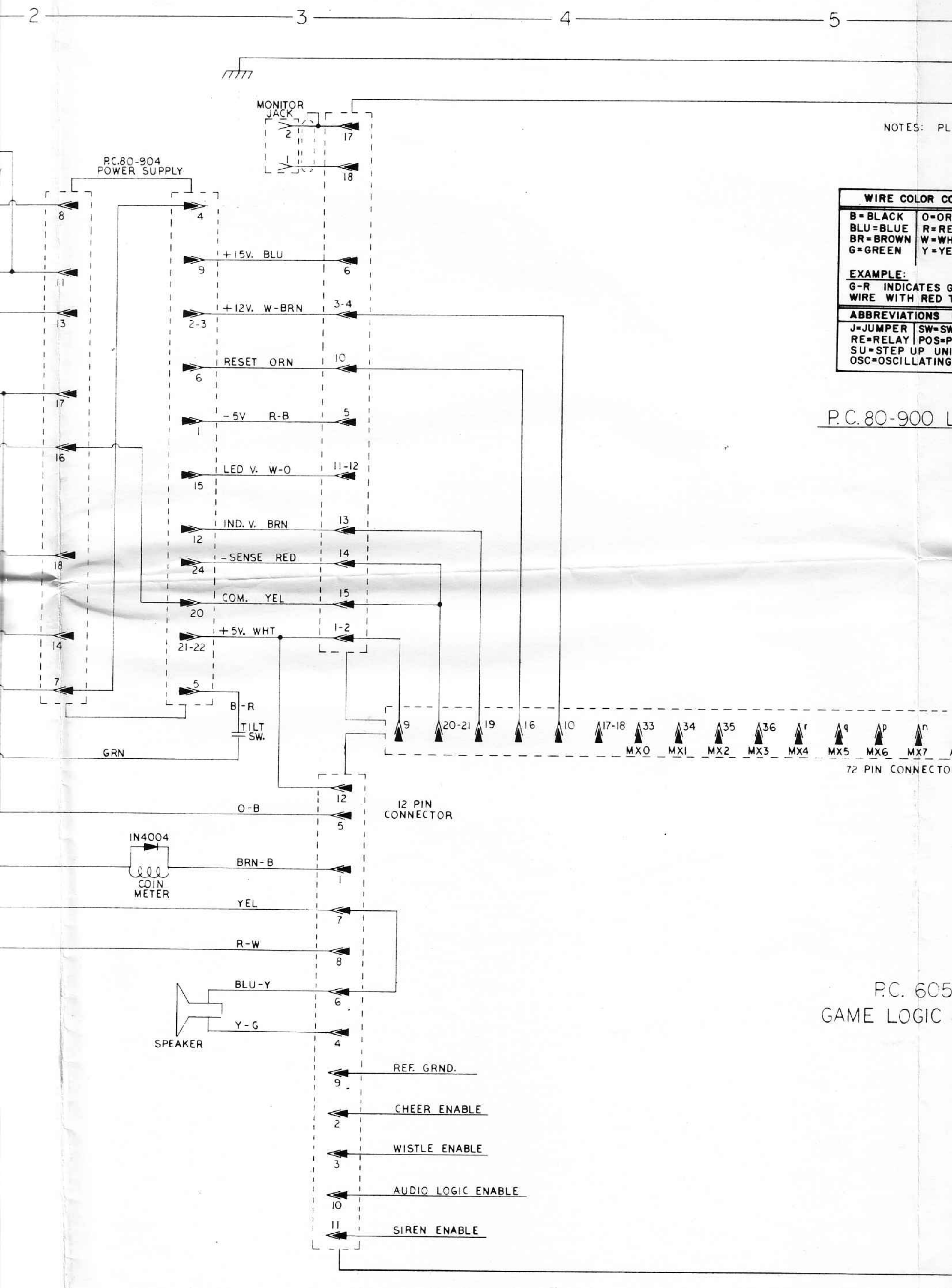
S2 & S9 ▼▲ INDICATE OPEN LINK

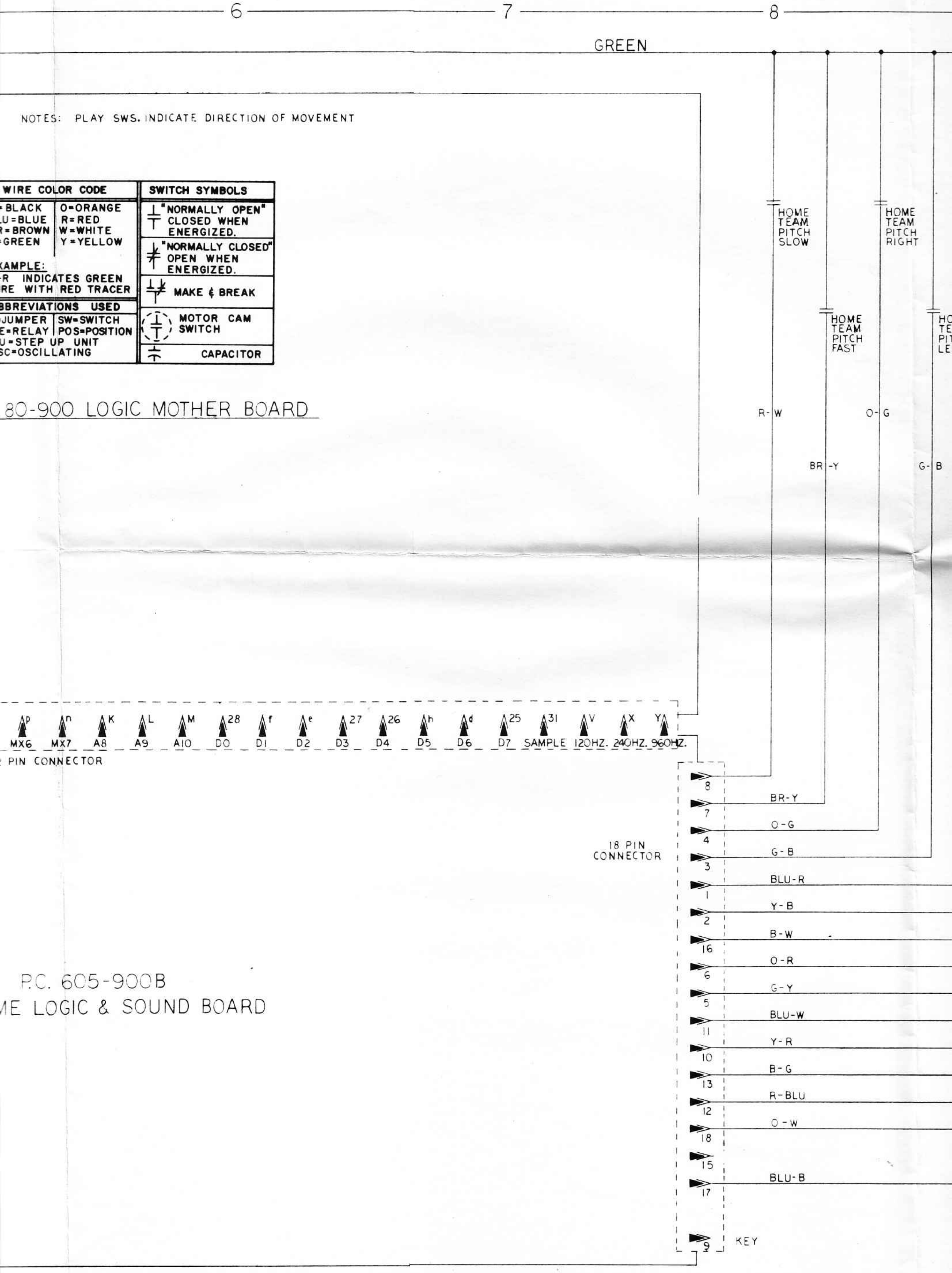


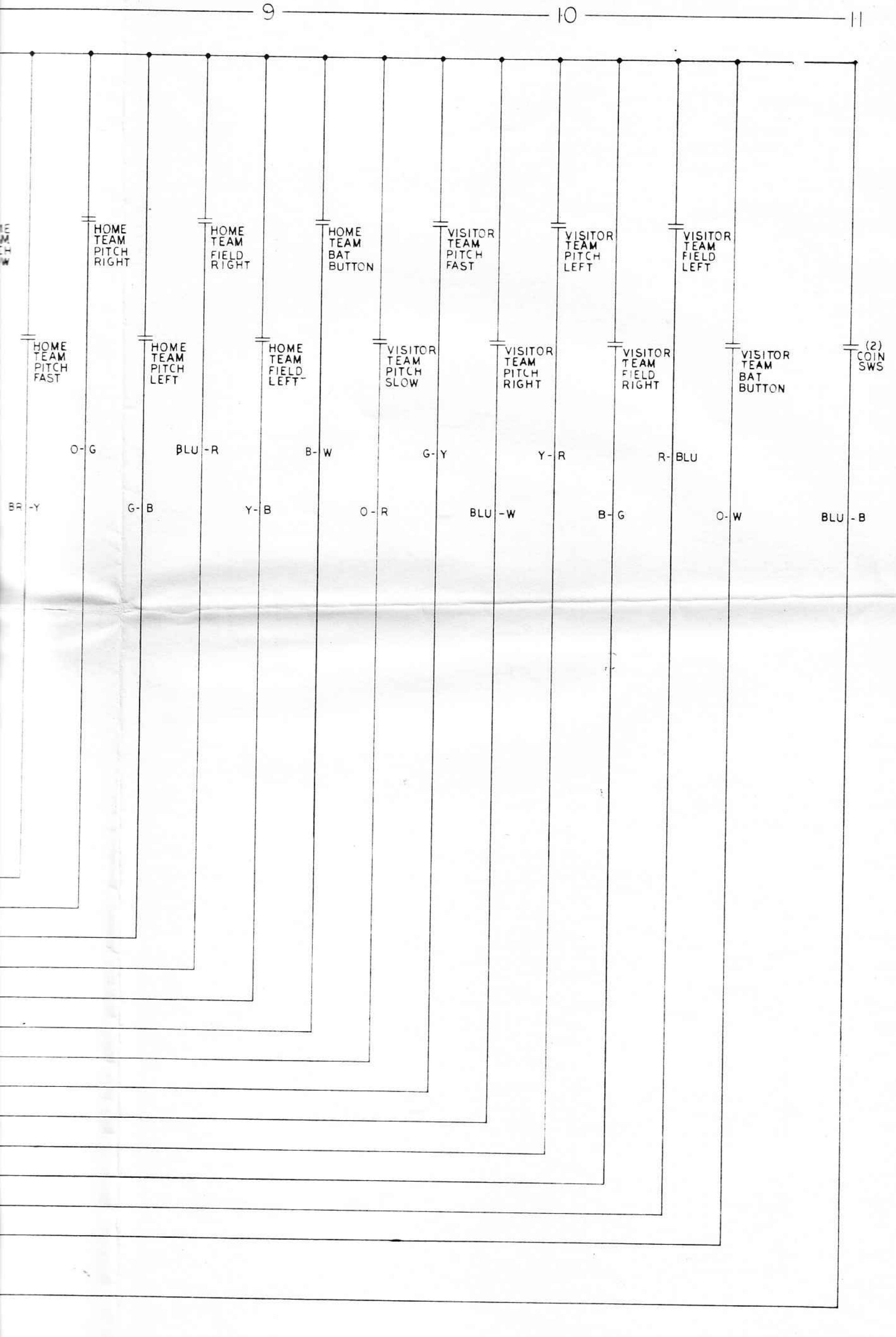
TORNADO BASEBALL

TABLE MODEL

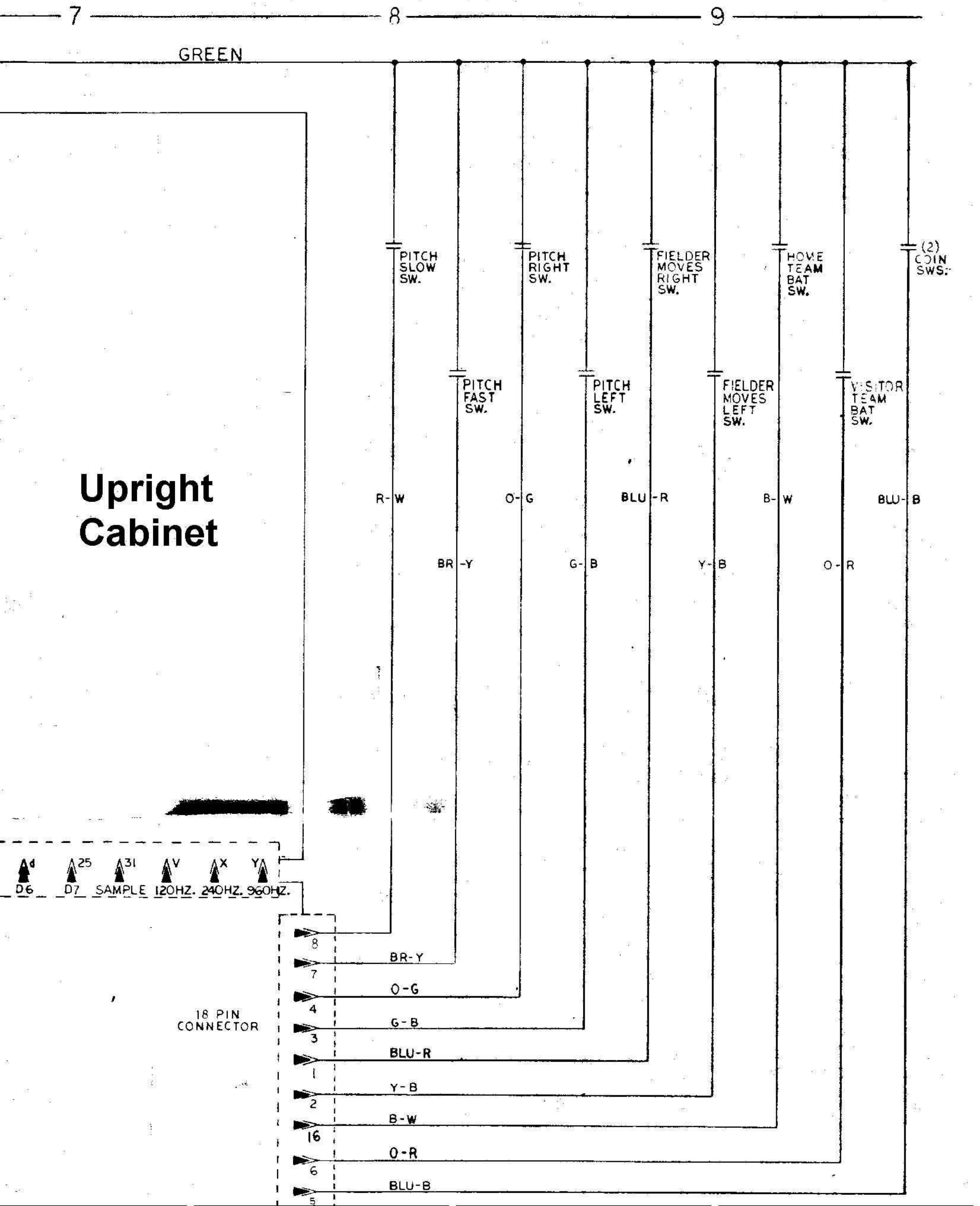
MIDWAY MFG CO
10750 GRAND AVE
FRANKLIN PARK, IL 60137 JULY 1,1976


2
3
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5
MONITOR JACK
P.C.80-904 POWER SUPPLY
+15V. BLU
+12V. W-BRN
RESET ORN
-5V R-B
LED V. W-O
IND. V. BRN
-SENSE RED
COM. YEL
+5V. WHT
B-R
TILT SW.
GRN
NOTES: PL
WIRE COLOR CO
B=BLACK
BLU=BLUE
BR=BROWN
G=GREEN
O=OR
R=RE
W=WH
Y=YE
EXAMPLE:
G-R INDICATES G
WIRE WITH RED T
ABBREVIATIONS
J=JUMPER
RE=RELAY
SW=SW
POS=P
SU=STEP UP UNI
OSC=OSCILLATING
P.C. 80-900 L
MX0 MX1 MX2 MX3 MX4 MX5 MX6 MX7
72 PIN CONNECTO
12 PIN CONNECTOR
O-B
1N4004
BRN-B
COIN METER
YEL
R-W
BLU-Y
Y-G
SPEAKER
REF. GRND.
CHEER ENABLE
WISTLE ENABLE
AUDIO LOGIC ENABLE
SIREN ENABLE
P.C. 605
GAME LOGIC

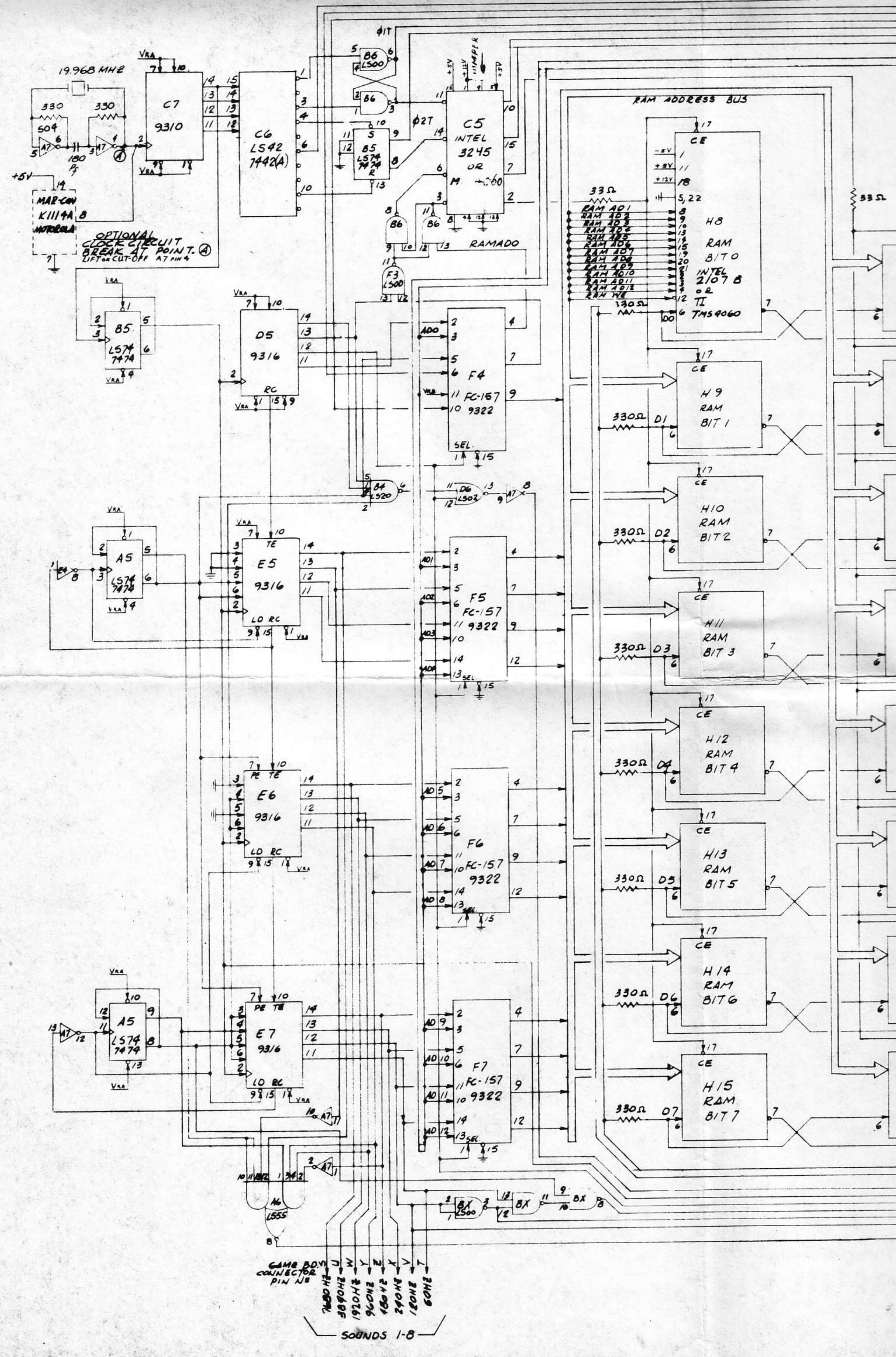

6
7
8
GREEN
NOTES: PLAY SWS. INDICATE DIRECTION OF MOVEMENT
WIRE COLOR CODE
-BLACK
LU=BLUE
R=BROWN
=GREEN
O=ORANGE
R=RED
W=WHITE
Y=YELLOW
XAMPLE:
-R INDICATES GREEN
RE WITH RED TRACER
BBREVIATIONS USED
=JUMPER
E=RELAY
U=STEP UP UNIT
SC=OSCILLATING
SW=SWITCH
POS=POSITION
SWITCH SYMBOLS
"NORMALLY OPEN" CLOSED WHEN ENERGIZED.
"NORMALLY CLOSED" OPEN WHEN ENERGIZED.
MAKE & BREAK
MOTOR CAM SWITCH
CAPACITOR
80-900 LOGIC MOTHER BOARD
HOME TEAM PITCH SLOW
HOME TEAM PITCH FAST
HOME TEAM PITCH RIGHT
HO TE PIT LE
R-W
BR-Y
O-G
G-B
MX6 MX7 A8 A9 A10 D0 D1 D2 D3 D4 D5 D6 D7 SAMPLE 120HZ. 240HZ. 960HZ.
p n K L M 28 f e 27 26 h d 25 31 V X Y
PIN CONNECTOR
18 PIN CONNECTOR
8 7 4 3 1 2 16 6 5 11 10 13 12 18 15 17 9
BR-Y
O-G
G-B
BLU-R
Y-B
B-W
O-R
G-Y
BLU-W
Y-R
B-G
R-BLU
O-W
BLU-B
KEY
P.C. 605-900B
ME LOGIC & SOUND BOARD

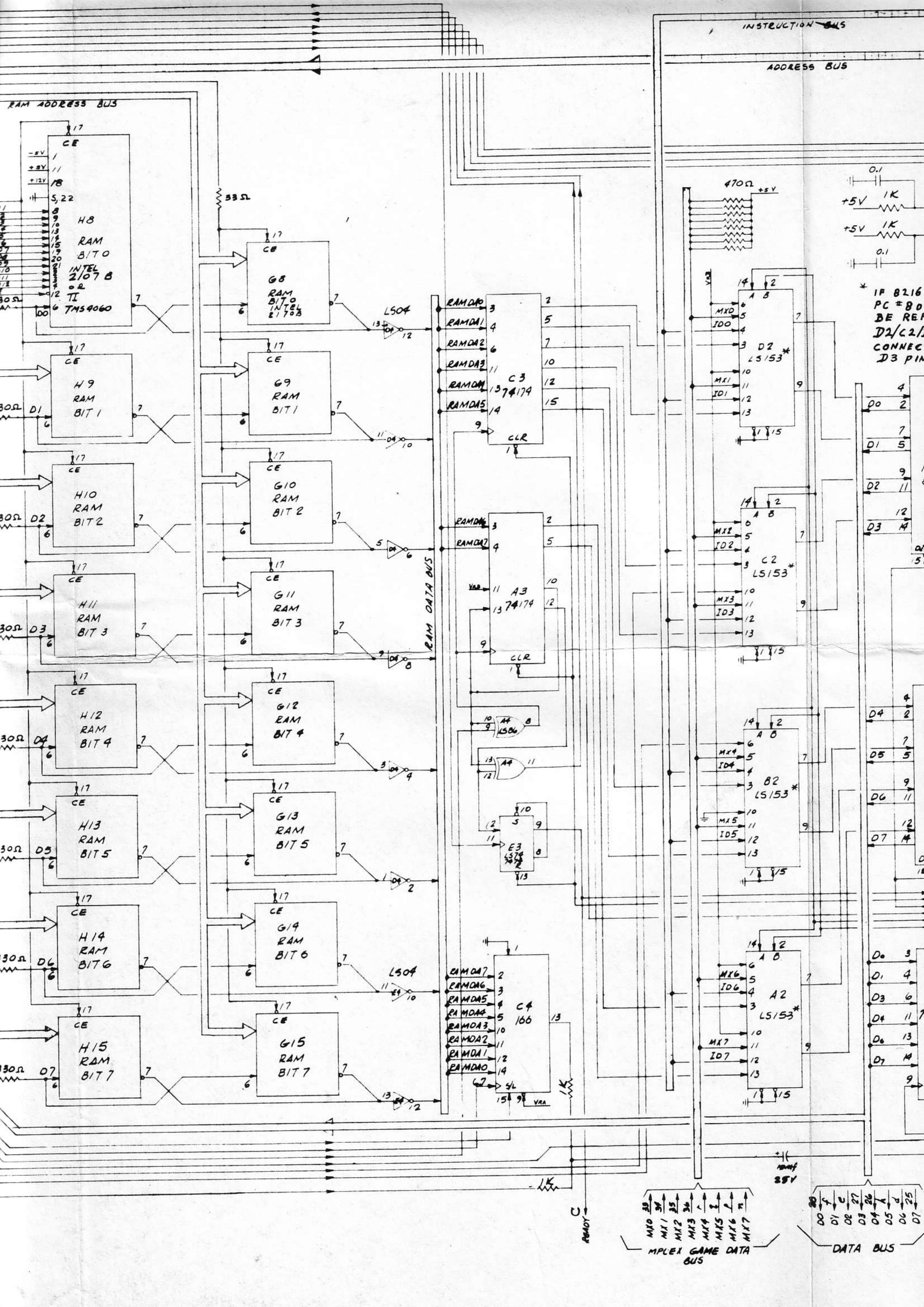


9
10
11
HOME TEAM PITCH RIGHT
HOME TEAM FIELD RIGHT
HOME TEAM BAT BUTTON
VISITOR TEAM PITCH FAST
VISITOR TEAM PITCH LEFT
VISITOR TEAM FIELD LEFT
HOME TEAM PITCH FAST
HOME TEAM PITCH LEFT
HOME TEAM FIELD LEFT
VISITOR TEAM PITCH SLOW
VISITOR TEAM PITCH RIGHT
VISITOR TEAM FIELD RIGHT
VISITOR TEAM BAT BUTTON
(2) COIN SWS
O-G
BLU-R
B-W
G-Y
Y-R
R-BLU
BR-Y
G-B
Y-B
O-R
BLU-W
B-G
O-W
BLU-B

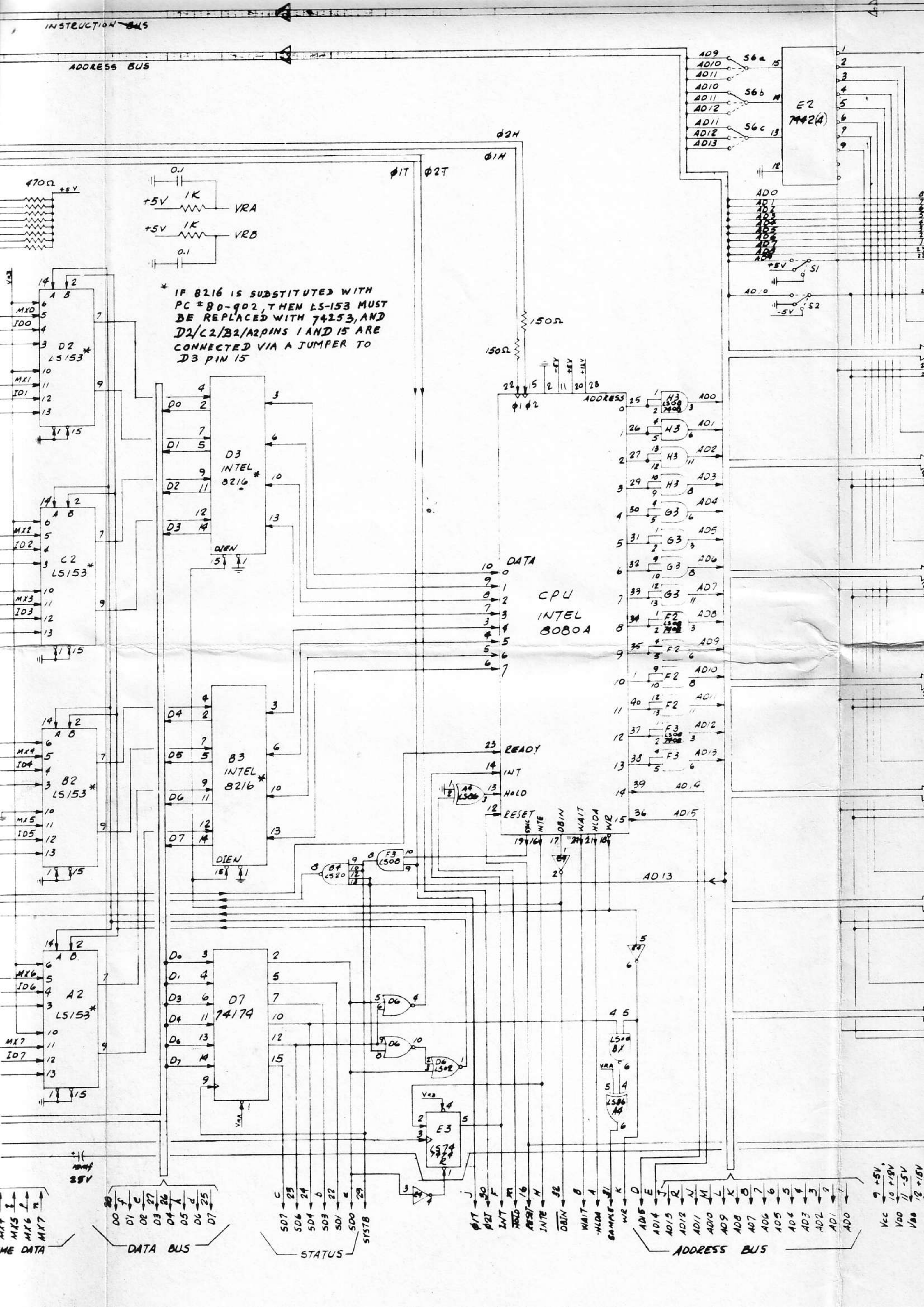


7
8
9
GREEN
PITCH SLOW SW.
PITCH FAST SW.
PITCH RIGHT SW.
PITCH LEFT SW.
FIELDER MOVES RIGHT SW.
FIELDER MOVES LEFT SW.
HOME TEAM BAT SW.
VISITOR TEAM BAT SW.
(2) COIN SWS.
R-W
BR-Y
O-G
G-B
BLU-R
Y-B
B-W
O-R
BLU-B
Upright Cabinet
D6
25 D7
31 SAMPLE
V 120HZ.
X 240HZ.
Y 960HZ.
18 PIN CONNECTOR
8
BR-Y
7
O-G
4
G-B
3
BLU-R
1
Y-B
2
B-W
16
O-R
6
BLU-B
5

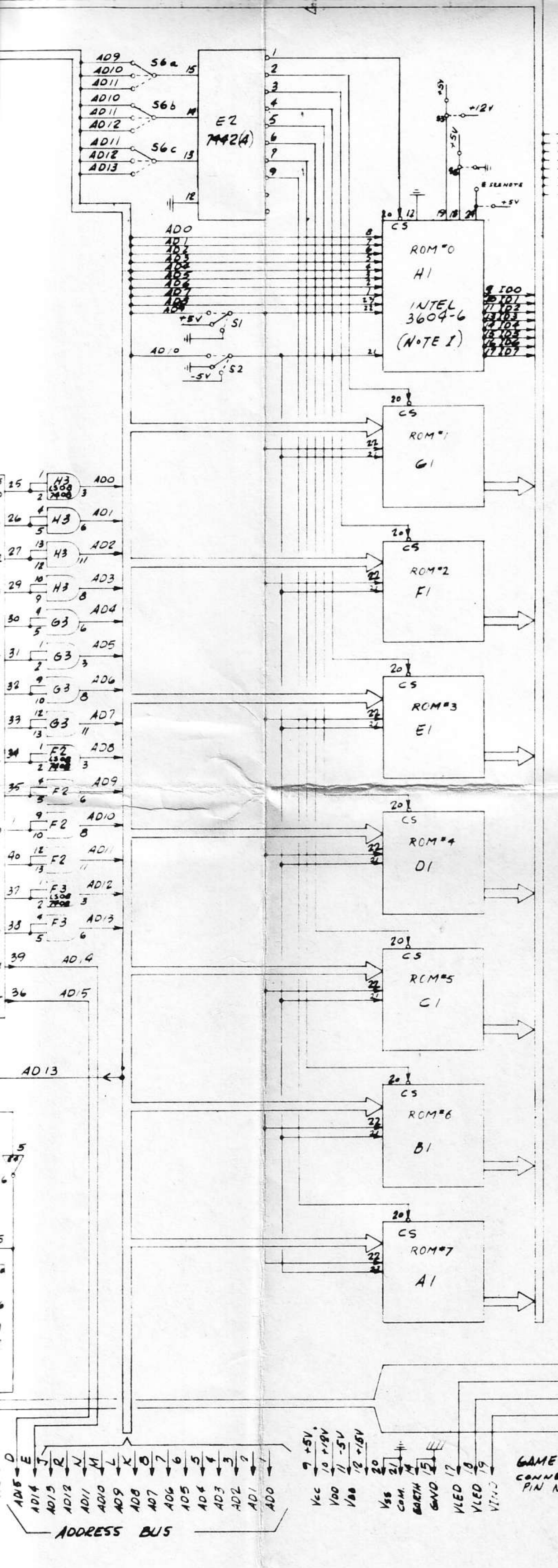

19.968 MHZ
C7
9310
C6
LS42
7442(A)
C5
INTEL
3245
OR
RAM ADDRESS BUS
H8
RAM
BIT 0
INTEL
2107 B
OR
TI
TMS4060
MAR-CON
K1114A
MOTOROLA
OPTIONAL
CLOCK CIRCUIT
BREAK AT POINT. A
LIFT OR CUT-OFF A7 PIN 4
B5
LS74
7474
D5
9316
F4
FC-157
9322
RAMADO
H9
RAM
BIT 1
H10
RAM
BIT 2
A5
LS74
7474
E5
9316
F5
FC-157
9322
H11
RAM
BIT 3
H12
RAM
BIT 4
E6
9316
F6
FC-157
9322
H13
RAM
BIT 5
H14
RAM
BIT 6
E7
9316
F7
FC-157
9322
H15
RAM
BIT 7
A6
LS55
GAME BD.
CONNECTOR
PIN No
7680 HZ
3840 HZ
1920 HZ
960 HZ
480 HZ
240 HZ
120 HZ
60 HZ
SOUNDS 1-8



INSTRUCTION BUS
ADDRESS BUS
RAM ADDRESS BUS
H8
RAM
BIT 0
INTEL
2107 B
OR
TI
TMS4060
H9 RAM BIT 1
H10 RAM BIT 2
H11 RAM BIT 3
H12 RAM BIT 4
H13 RAM BIT 5
H14 RAM BIT 6
H15 RAM BIT 7
G8 RAM BIT 0
G9 RAM BIT 1
G10 RAM BIT 2
G11 RAM BIT 3
G12 RAM BIT 4
G13 RAM BIT 5
G14 RAM BIT 6
G15 RAM BIT 7
33Ω
LS04
RAM DATA BUS
C3 74174
A3 74174
C4 166
E3
CLR
470Ω
+5V
0.1
1K
D2 LS153
C2 LS153
B2 LS153
A2 LS153
1K
25V
READY
MPLEX GAME DATA BUS
DATA BUS



INSTRUCTION BUS
ADDRESS BUS
E2
7442(A)
S6a
S6b
S6c
S1
S2
VRA
VRB
* IF 8216 IS SUBSTITUTED WITH PC # 80-902, THEN LS-153 MUST BE REPLACED WITH 74253, AND D2/C2/B2/A2 PINS 1 AND 15 ARE CONNECTED VIA A JUMPER TO D3 PIN 15
D2 LS153*
C2 LS153*
B2 LS153*
A2 LS153*
D3 INTEL 8216*
B3 INTEL 8216*
D7 74174
E3 LS74
CPU INTEL 8080A
DATA
ADDRESS
READY
INT
HOLD
RESET
DIEN
AD13
DATA BUS
STATUS
ADDRESS BUS
ME DATA
SYSTB



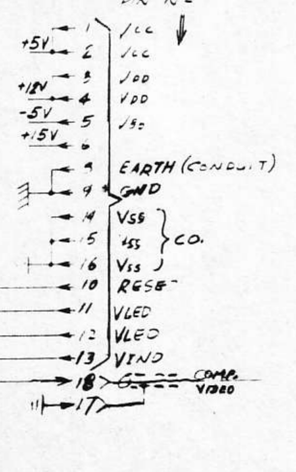


NOTE 1. OTHER AVAILABLE CHIPS AND STRAP ARRANGEMENT IF USED

MFG	№	S1 PIN 22	S2 PIN 21	S3 PIN 19	S5 PIN 18	S6a PIN 15	S6b PIN 14	S6c PIN 13	PIN 24	E-RACK NEEDED
INTEL	2308	AD9	-5V	+12V	COM	AD10	AD11	AD12	+5V	NO
INTEL	2704	COM	-5V	+12V	COM	AD9	AD10	AD11	+5V	NO
INTEL	2708	AD9	-5V	+12V	COM	AD10	AD11	AD12	+5V	NO
INTEL	3304A 3304A-4	+5V	COM	+5V	+5V	AD9	AD10	AD11	+5V	YES
INTEL	3304A-6 3304AL6	+5V	COM	+5V	+5V	AD9	AD10	AD11	PIN CUT-OFF	YES
INTEL	3324A 3324A-4	+5V	COM	+5V	+5V	AD9	AD10	AD11	+5V	NO
INTEL	3604 3604-4	+5V	COM	+5V	+5V	AD9	AD10	AD11	+5V	YES
INTEL	3604-6 3604L-6	+5V	COM	+5V	+5V	AD9	AD10	AD11	PIN CUT-OFF	YES
INTEL	3624 3624-4	+5V	COM	+5V	+5V	AD9	AD10	AD11	+5V	NO
INTEL	8308	AD9	-5V	+12V	+5V	AD10	AD11	AD12	+5V	NO
AMD	9208	AD9	X	+12V	COM	AD10	AD11	AD12	+5V	NO
AMD	9216	AD9	AD10	+12V	+5V	AD11	AD12	AD13	+5V	NO
AMD	27S80	AD9	COM	+5V	+5V	AD10	AD11	AD12	+5V	YES
AMD	27S81	AD9	COM	+5V	+5V	AD10	AD11	AD12	+5V	NO
HARRIS	7640-5	X	COM	+5V	+5V	AD9	AD10	AD11	+5V	YES
HARRIS	7641-5	X	COM	+5V	+5V	AD9	AD10	AD11	+5V	NO
FSC	93438	X	COM	+5V	+5V	AD9	AD10	AD11	+5V	YES
FSC	93448	X	COM	+5V	+5V	AD9	AD10	AD11	+5V	NO

X = NOT USED

POWER CONNECTOR PIN №



CONTROLS

O.C. MODEL

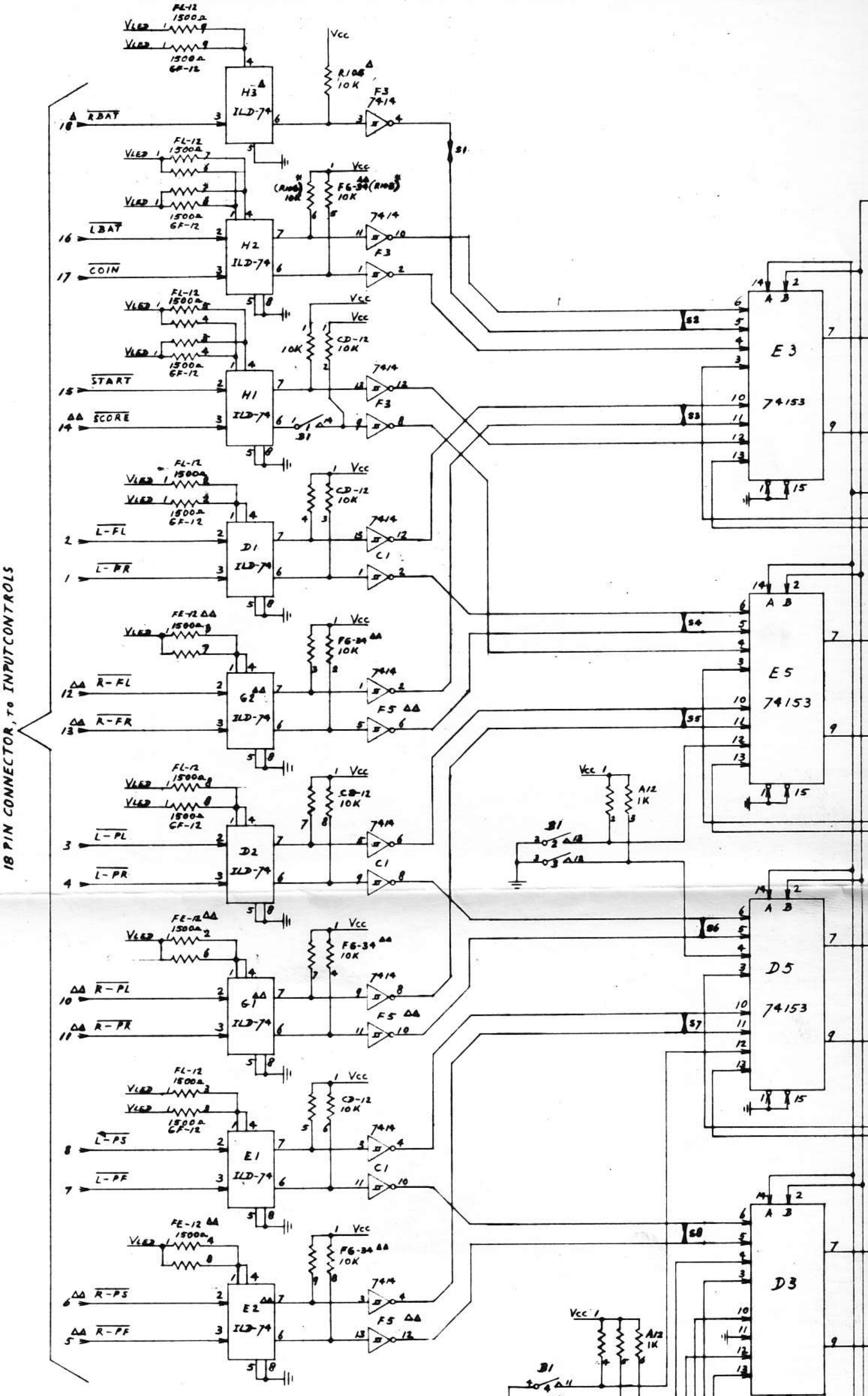
- COIN SW.
- START SW.
- LEFT BAT
- LEFT FIELD
- LEFT PITCH

N.C. MODEL

- COIN SW.
- START SW.
- SCORE SW.
- RIGHT BAT
- LEFT FIELD
- LEFT PITCH

TABLE MODEL

- COIN SW.
- START SW.
- SCORE SW.
- LEFT BAT
- RIGHT BAT
- LEFT FIELD
- RIGHT FIELD
- LEFT PITCH
- RIGHT PITCH



NOTES: O.C. MODEL

1. DELETE ALL COMPONENTS MARKED "Δ" AND "ΔΔ" (8 PC.)
2. DELETE 7 INPUT WIRES, MARKED "Δ" AND "ΔΔ"
3. REMOVE LINKS #S1 AND #S10

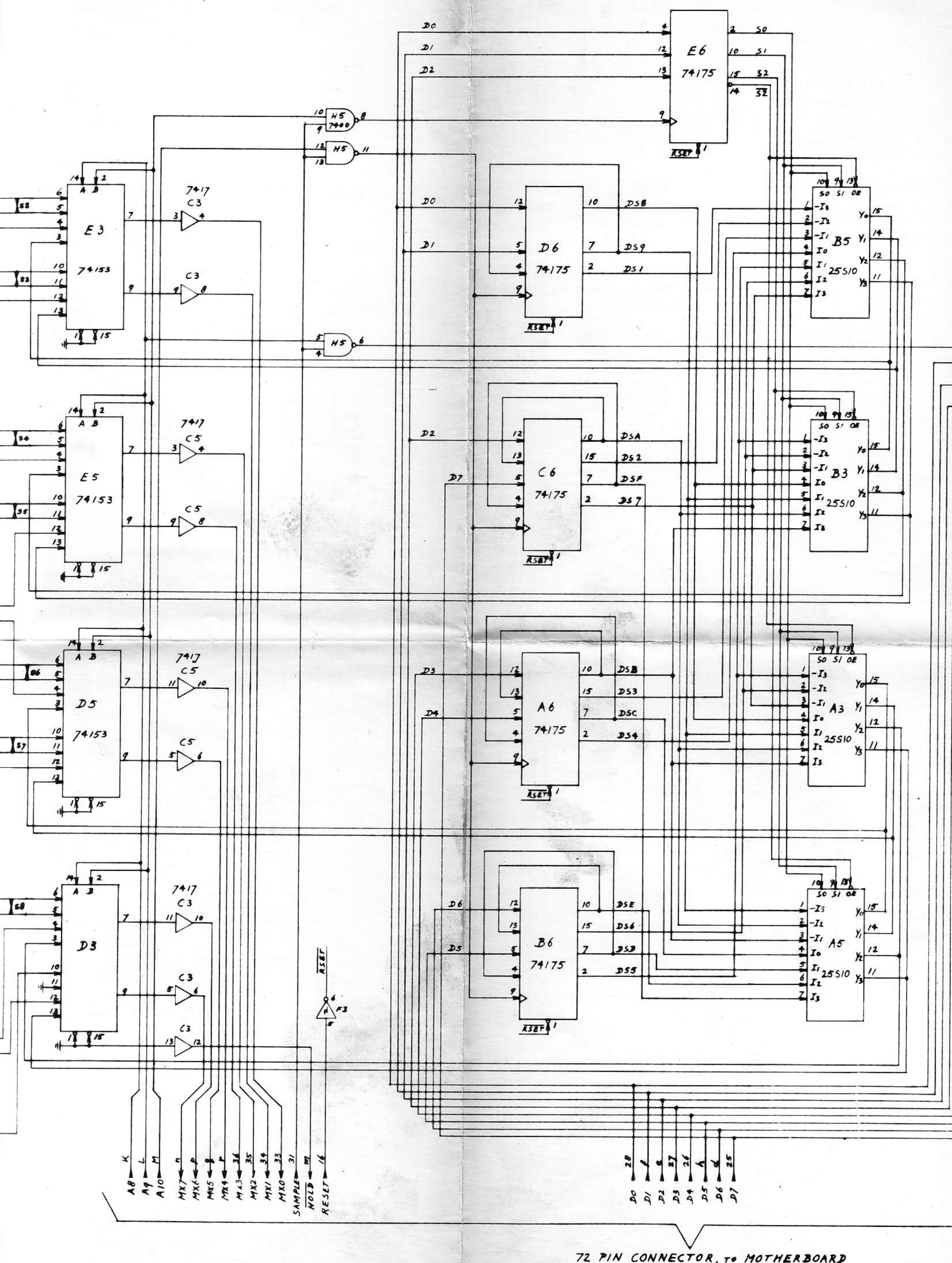
N.C. MODEL

1. DELETE ALL COMPONENT MARKED "ΔΔ" (6 PC.)
2. DELETE 6 INPUT WIRES, MARKED "ΔΔ"
3. REMOVE LINKS #S2 AND #S9

TABLE MODEL

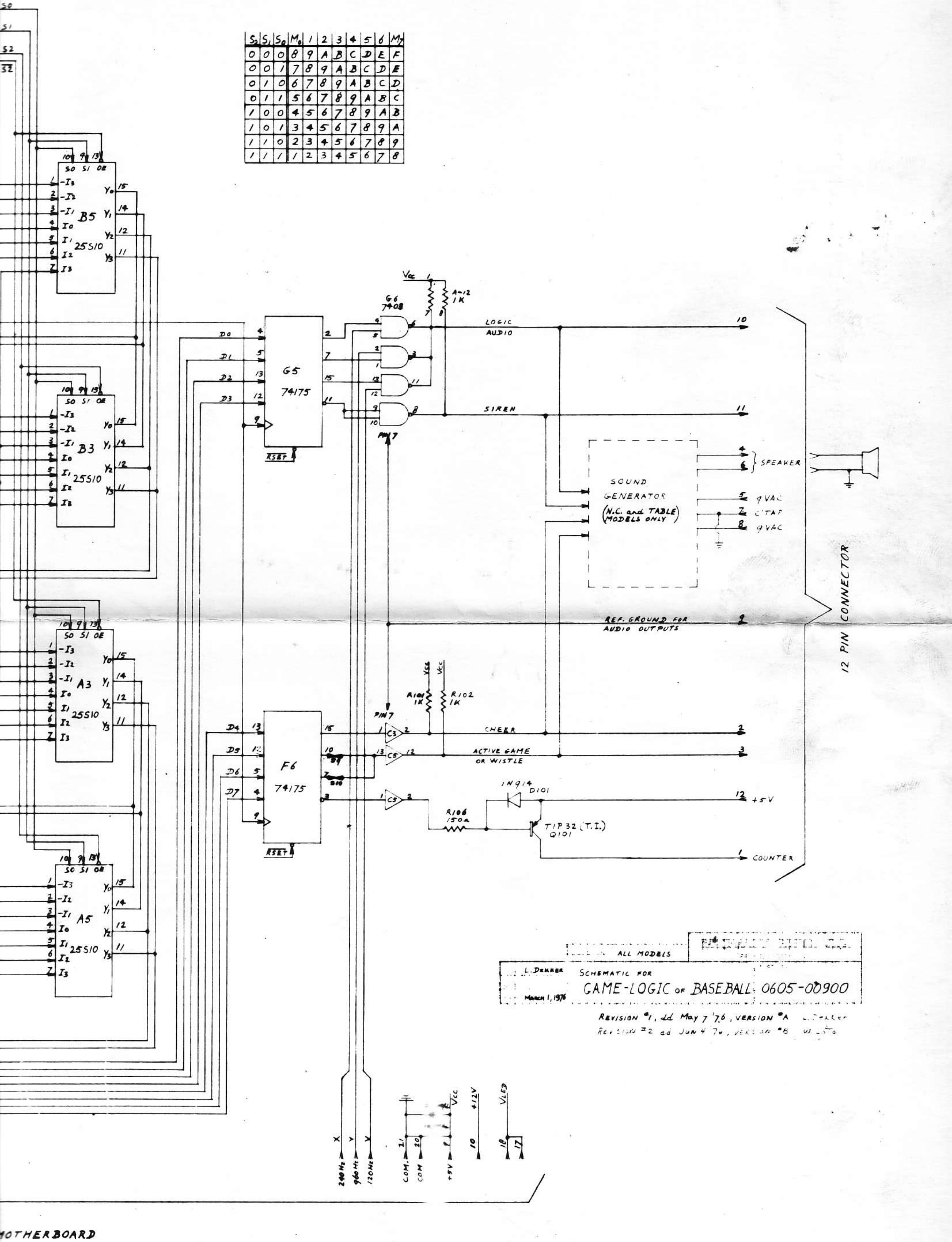
1. REMOVE LINKS #S2 THROUGH #S9
2. DELETE ALL COMPONENTS MARKED "*" (2 PC.)

■ REMOVEABLE LINK IN P.C. CIRCUITRY



E6
74175
D6
74175
C6
74175
A6
74175
B6
74175
E3
74153
E5
74153
D5
74153
D3
74153
B5
25S10
B3
25S10
A3
25S10
A5
25S10
H5
7400
7417
C3
C5
F3
RSET
DSB
DS9
DS1
DSA
DS2
DSF
DS7
DSC
DS3
DS4
DSE
DS6
DSD
DS5
S0
S1
S2
A8
A9
A10
MX7
MX6
MX5
MX4
MX3
MX2
MX1
MX0
SAMPLE
HOLD
RESET
D0
D1
D2
D3
D4
D5
D6
D7
72 PIN CONNECTOR, TO MOTHERBOARD

S_2	S_1	S_0	M_0	1	2	3	4	5	6	M_7
0	0	0	8	9	A	B	C	D	E	F
0	0	1	7	8	9	A	B	C	D	E
0	1	0	6	7	8	9	A	B	C	D
0	1	1	5	6	7	8	9	A	B	C
1	0	0	4	5	6	7	8	9	A	B
1	0	1	3	4	5	6	7	8	9	A
1	1	0	2	3	4	5	6	7	8	9
1	1	1	1	2	3	4	5	6	7	8



ALL MODELS

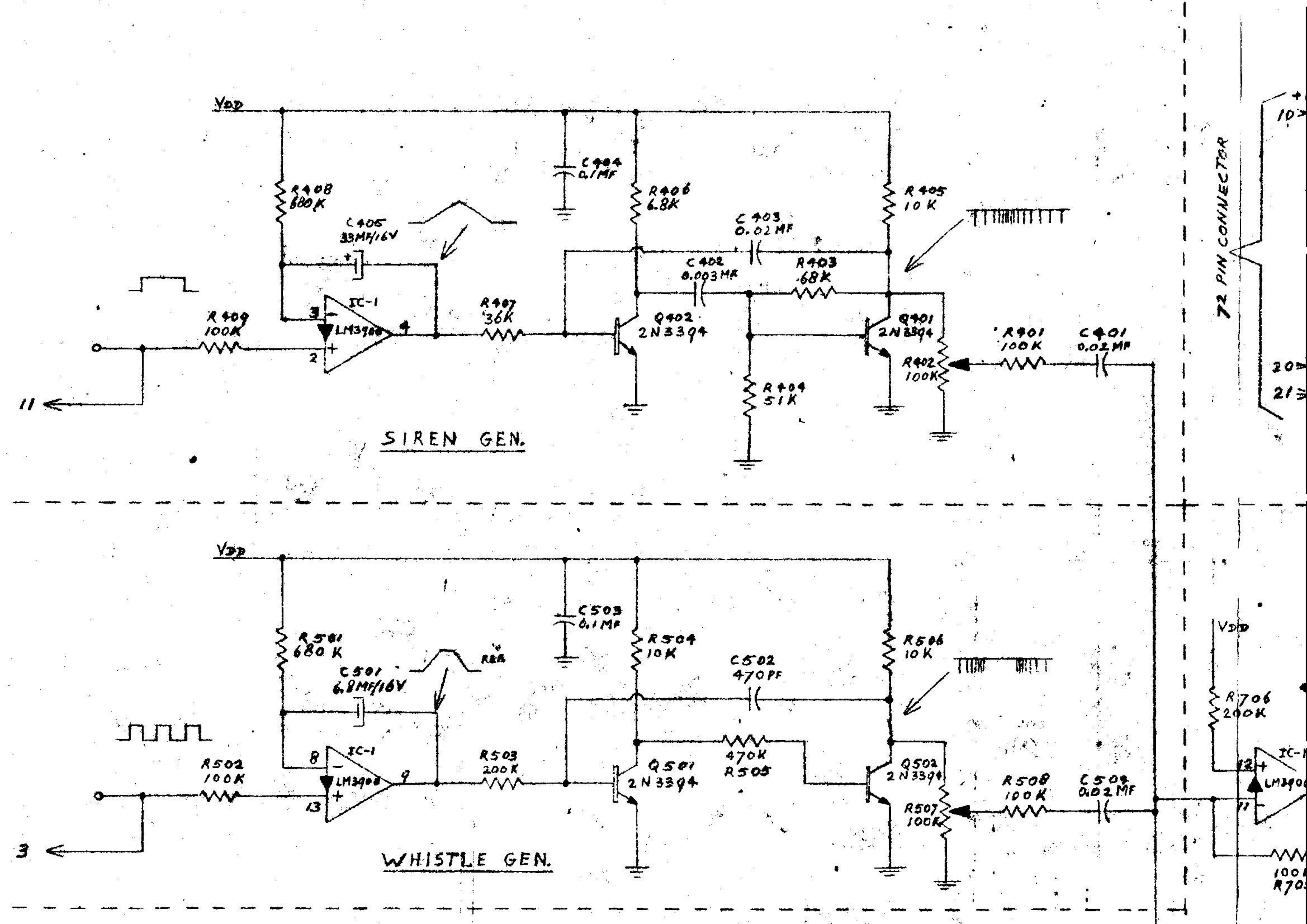
L. DEKKER — SCHEMATIC FOR

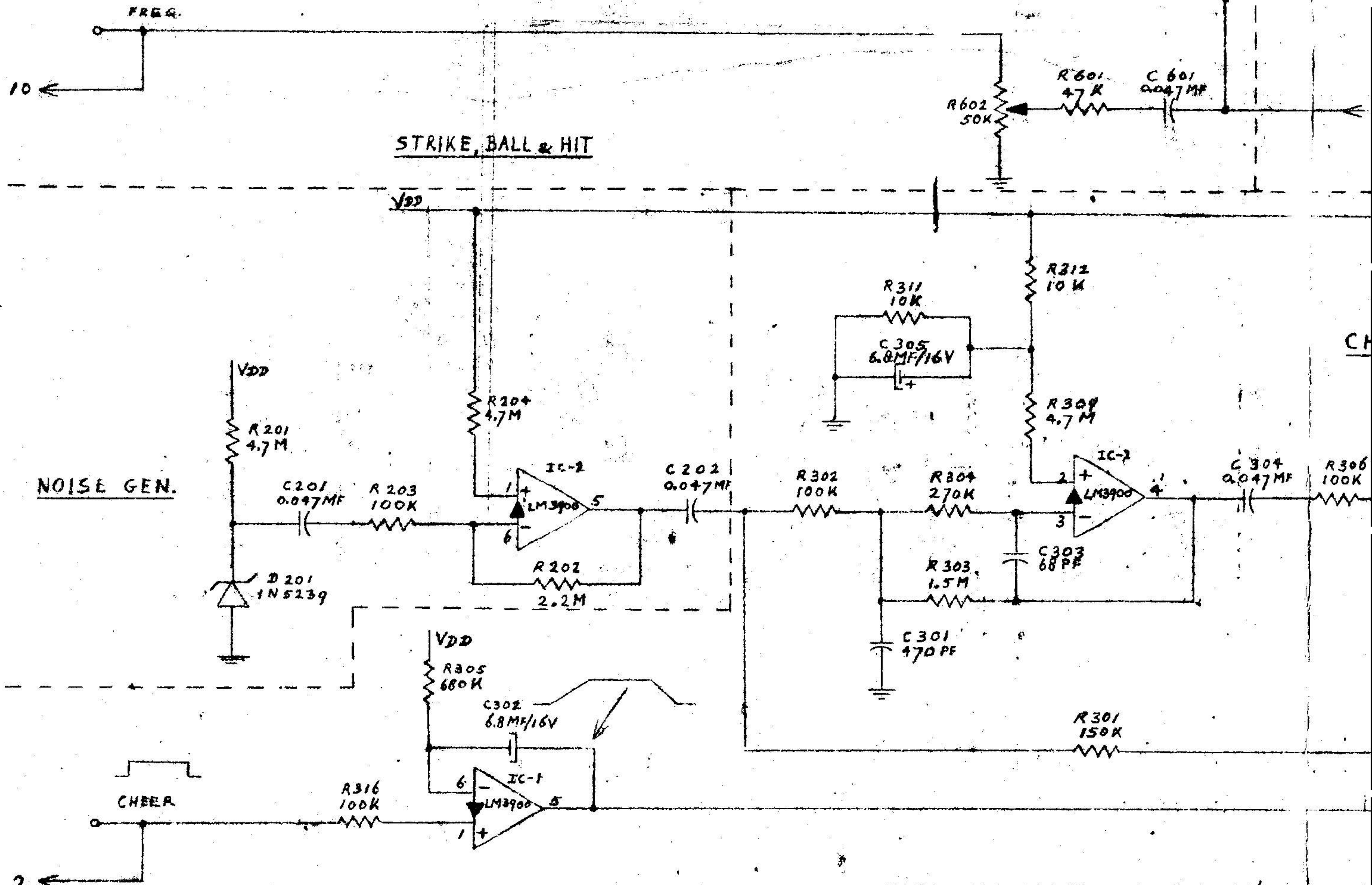
GAME-LOGIC OF BASEBALL 0605-00900

MARCH 1, 1976

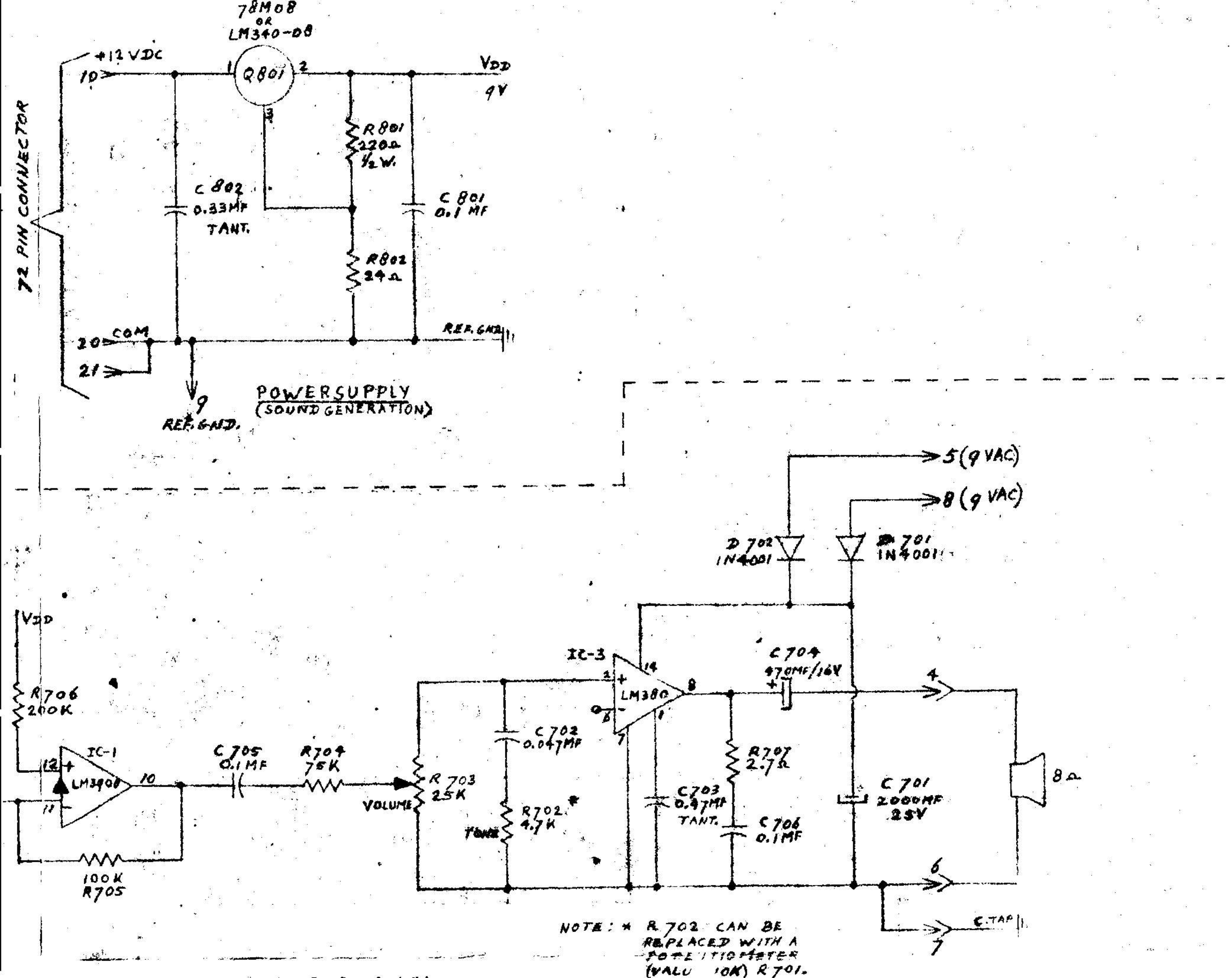
REVISION #1, dd May 7 '76, VERSION #A L. DEKKER

REVISION #2 dd JUN 4 76, VERSION #B


VDD
R408
680K
C405
33MF/16V
C404
0.1MF
R406
6.8K
R405
10K
C403
0.02MF
C402
0.003MF
R403
68K
IC-1
LM3900
R407
36K
Q402
2N3394
Q401
2N3394
R409
100K
R401
100K
C401
0.02MF
R402
100K
R404
51K
11
SIREN GEN.
72 PIN CONNECTOR
VDD
R501
680 K
C501
6.8MF/16V
C503
0.1MF
R504
10K
R506
10K
C502
470PF
IC-1
LM3900
R503
200K
470K
R505
Q501
2N3394
Q502
2N3394
R502
100K
R508
100K
C509
0.02MF
R507
100K
3
WHISTLE GEN.
VDD
R706
200K
LM3900

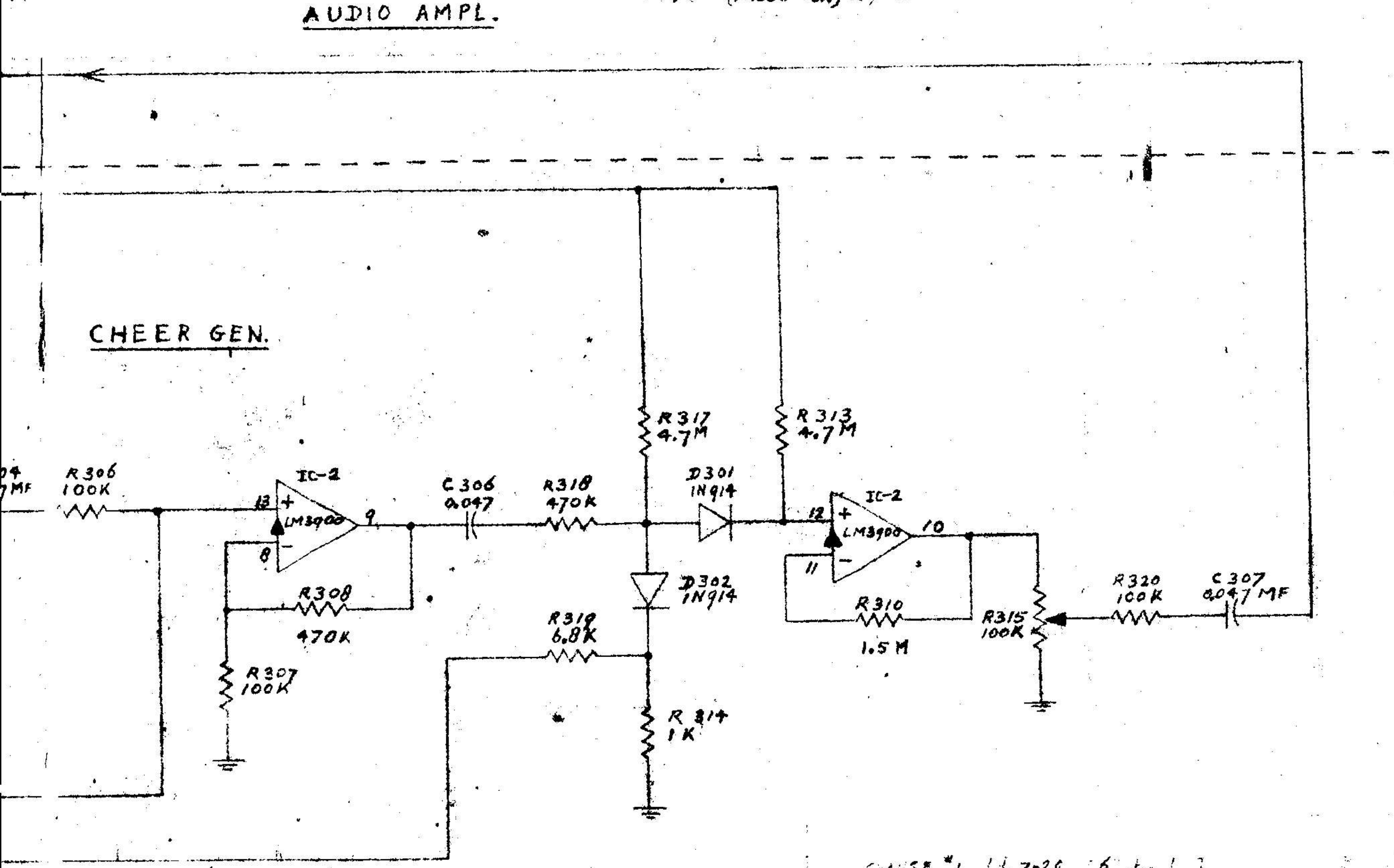


NOTE: ALL CONNECTOR PIN No's ARE FOR 12 PIN CONNECTOR (EXCEPT AS NOTED)



78M08
OR
LM340-08
+12 VDC
10
Q801
VDD
9V
72 PIN CONNECTOR
R801
220Ω
1/2 W.
C 802
0.33MF
TANT.
C 801
0.1 MF
R802
24Ω
20
COM
21
REF. GND
9
REF. GND.
POWERSUPPLY
(SOUND GENERATION)
5 (9 VAC)
8 (9 VAC)
D 702
1N4001
D 701
1N4001
VDD
R706
200K
IC-1
LM3900
IC-3
LM380
C 705
0.1MF
R704
75K
R 703
25K
VOLUME
C 702
0.047MF
R702
4.7K
TONE
C 704
470MF/16V
R707
2.7Ω
C703
0.47MF
TANT.
C 706
0.1MF
C 701
2000MF
25V
8Ω
100K
R705
C.TAP
NOTE: * R702 CAN BE REPLACED WITH A POTENTIOMETER (VALU 10K) R701.

(VALUE-10K) R701.



USED ON N.C.	MIDWAY MFG. CO. FRANKLIN PARK, ILL.
DRN. DEKKER	
CKD.	PART NO.
DATE 26'76	